Number	Location	Shape	Diameter(Ø)	Length
1	Footing Pad			
	F-1-		12	2.55
2	Short Columen			
	FC-1-		20	3.7
	STIR UP			
	FC-1-		8	1
3	Gread Beam			
	GB1		14	5.7
			14	5.7
			8	4.81
	GB2		14	5.5
			14	10
			14	5.5
			14	9
			14	12
			8	4.81
	GB3		14	10.3
			14	20.6
			14	5.5
			14	4
			14	8.1
			8	4.81
	GB4&GB5		14	7.8
			14	5
			14	8.1
			14	5
			8	11.52
	GB6		14	11.1
			14	11.1
			8	10.2
	GB7&GB8		14	12
			14	5
			14	7.5
			8	11.21
4	Grond Floor Slab			
	GFS-1-		8	4.3
	GFS-2-		8	3.8
	GFS-3-		8	4.7
	GFS-4-		8	6.6
	GFS-5-		8	5.4

Number	Location	Shape	Diameter(Ø)	Length
1	Elevation Column In G+0			
	C-1-		20	4
	Elevation Column In G+1			
	C-1-		20	4
	STIR UP			
	C-1-		6	1
2	First Floor Beam			
	FFB-1-		14	5.75
			14	5.75
	FFB-2-		14	5.5
			14	10
			14	5.5
			14	1.2
			14	9
	FFB-3-		16	7.8
			16	5
			20	3.4
			20	3.65
			20	8.1
	FFB-4-		20	7.8
			20	5
			20	3.4
			20	3.65
			20	8.1
			20	5
	FFB-5-		20	6.6
			20	6.1
			20	6.2
			20	3.4
			20	12.3
	FFB-6-		20	6.6
			20	5.9
			20	3.4
			20	12
	FFB-7		14	6.6
			14	5.9
			16	3.4
			16	12
4	Roof Beam			

	RFB-1-		14	10.1
			14	20.2
			14	5.3
			14	4
			14	12
	RFB-2-		14	10.1
			14	22
			14	5.3
			14	2.2
			14	12
	RFB-3-		14	7.6
			14	5.7
			14	8.8
			14	4.8
	RFB-4-		14	1.9
			14	1.9
	RFB-5-		14	1.6
			14	1.6
	Stir up first floor			
	FFB-1-		8	4.81
	FFB-2-		8	4.81
	FFB-3-		10	11.52
	FFB-4		10	11.52
	FFB-5-		10	11.52
	FFB-6-		10	11.22
	FFB-7		10	11.22
	STIR UP for second floor			
	SFB-1-		8	4.81
	SFB-2-		10	12.52
	SFB-3-		10	12.52
	STIR UP for roof beam			
	RFB-1-		8	4.81
	RFB-2-		8	4.81
	RFB-3-		8	12.52
	RFB-4-		8	1.3
	RFB-5-		8	1

1 RAINFORCEMMENT FOR SUB STRUCTURE

No Of Bar	No Of Member	Quantity	Ø6	Ø8
14	2	71.4		
		0		
10	12	444		
		0		
6	12	72		72
		0		
3	2	34.2		
3	2	34.2		
26	1	125.06		125.06
3	1	16.5		
3	1	30		
3	1	16.5		
3	1	27		
3	1	36		
26	4	500.24		500.24
3	1	30.9		
3	1	61.8		
3	1	16.5		
3	1	12		
3	1	24.3		
26	5	625.3		625.3
3	2	46.8		
3	2	30		
3	2	48.6		
3	2	30		
58	2	1336.32		1336.32
3	1	33.3		
3	1	33.3		
52	1	530.4		530.4
3	2	72		
3	2	30		
3	2	45		
57	2	1277.94		1277.94
		0		0
18	1	77.4		77.4
16	1	60.8		60.8
19	1	89.3		89.3
27	1	178.2		178.2
22	1	118.8		118.8
		Total		4991.76
		Unit Weight (kg/m)	0.22	0.39
		Total Weight in KG		1946.7864

Grand Total (KG)	

2 RAINFORCEMENT FOR SUPER STRUCTURE

No Of Bar	No Of Member	Totl Lngth	Ø6	Ø8
10	12	480		
8	12	384		
6	15	90	90	
2	1	11.5		
2	1	11.5		
2	1	11		
2	1	20		
2	1	11		
2	1	2.4		
2	1	18		
3	1	23.4		
2	1	10		
2	1	6.8		
2	1	7.3		
2	1	16.2		
4	1	31.2		
2	1	10		
3	1	10.2		
3	1	10.95		
2	1	16.2		
2	1	10		
3	1	19.8		
3	1	18.3		
2	1	12.4		
3	1	10.2		
2	1	24.6		
3	1	19.8		
3	1	17.7		
3	1	10.2		
2	1	24		
2	1	13.2		
3	1	17.7		
3	1	10.2		
3	1	36		

2	1	20.2		
2	1	40.4		
2	1	10.6		
2	1	8		
2	1	24		
2	1	20.2		
2	1	44		
2	1	10.6		
2	1	4.4		
2	1	24		
2	1	15.2		
2	1	11.4		
2	1	17.6		
2	1	9.6		
2	1	3.8		
2	1	3.8		
2	1	3.2		
2	1	3.2		
25	1	120.25		120.25
25	4	481		481
64	1	737.28		
89	1	1025.28		
89	1	1025.28		
87	1	976.14		
63	1	706.86		
25	5	601.25		601.25
63	1	788.76		
97	1	1214.44		
25	5	601.25		601.25
25	5	601.25		601.25
63	1	788.76		788.76
7	1	9.1		9.1
5	1	5		5
		total	90	3207.86
		Unit Weight (kg/m)	0.22	0.39
		Total Weight in KG	19.8	1251.0654
		Grand Total (KG)		

Length Of Rinforcement					
Ø10	Ø12	Ø14	Ø16	Ø20	Ø24
				71.4	
				444	
		34.2			
		34.2			
		16.5			
		30			
		16.5			
		27			
		36			
		30.9			
		61.8			
		16.5			
		12			
		24.3			
		46.8			
		30			
		48.6			
		30			
		33.3			
		33.3			
		72			
		30			
		45			
		708.9		515.4	
0.62	0.89	1.21	1.58	2.47	
		857.769		1273.038	

	4077.5934

Length Of Rinforcement					
Ø10	Ø12	Ø14	Ø16	Ø20	Ø24
				480	
				384	
		11.5			
		11.5			
		11			
		20			
		11			
		2.4			
		18			
			23.4		
			10		
				6.8	
				7.3	
				16.2	
				31.2	
				10	
				10.2	
				10.95	
				16.2	
				10	
				19.8	
				18.3	
				12.4	
				10.2	
				24.6	
				19.8	
				17.7	
				10.2	
				24	
		13.2			
		17.7			
			10.2		
			36		

		20.2			
		40.4			
		10.6			
		8			
		24			
		20.2			
		44			
		10.6			
		4.4			
		24			
		15.2			
		11.4			
		17.6			
		9.6			
		3.8			
		3.8			
		3.2			
		3.2			
737.28					
1025.28					
1025.28					
976.14					
706.86					
788.76					
1214.44					
6474.04		390.5	79.6	1139.85	
0.62	0.89	1.21	1.58	2.47	
4013.9048	0	472.505	125.768	2815.4295	
					8698.4727

Remark

Remark



MINISTRY OF EDUCATION ADMINIST
LOCATION ADIGRAT
PROJECT TYPE ADMINISTRATION BULIDING
LABOUR SCHEDULING

1.SUB STRUCTURE

TIMSING	DIMENTION	SQUARING	unit
1	22.625		
	15.4		
		348.425	m2
1	21.625		
	14.4		
	0.3		
		93.42	
21	1.65		
	1.65		
	1.5		
		85.75875	m3
21	1.65		
	1.65		
	1.5		
		85.75875	m3
		171.5175	
2	20.05		
	0.8		
	1		
		32.08	m3
1	18.75		
	0.8		
	1		
		15	
1	16.25		
	0.8		
	1		
		13	m3
4	8.25		
	0.8		
	1		
		26.4	

1	5.25		
	0.8		
	1		
		4.2	m3
2	4.75		
	0.8		
	1		
		7.6	
		98.28	m3
2	20.05		
	0.5		
	1		
		20.05	m3
1	18.75		
	0.5		
	1		
		9.375	m3
1	16.25		
	0.5		
	1		
		8.125	m3
4	8.25		
	0.5		
	1		
1	5.25	16.5	
	0.5		
	1		
		2.625	m3
2	4.75		
	0.5		
	1		
		4.75	m3
		61.425	
21	1.4		
	1.4		
		41.16	m2

		41.16	m2
21	1.4		
	1.4		
	0.4		
		16.464	m3
		16.464	m3
21	2.1		
	0.25		
	0.25		
		2.75625	m3
		2.75625	
2	20.05		
	0.5		
	0.3		
		6.015	m3
1	18.75		
	0.5		
	0.3		
		2.8125	m3
1	16.25		
	0.5		
	0.3		
		2.4375	m3
4	8.25		
	0.5		
	0.3		
1	5.25	4.95	
	0.5		
	0.3		
		0.7875	m3
2	4.75		
	0.5		
	0.3		
		1.425	m3
		18.4275	
		37.64775	
1	18.75		
	12.25		
	0.25		

		57.421875	
1	5.75		
	1.3		
	0.25		
		1.86875	
		59.290625	
1	4		
	2.25		
	0.25		
		2.25	
		18.4275	
		38.613125	m3
		711.6425	m3
		160.418375	m3
		551.224125	m3
84	1.425		
	0.4		
		47.88	
		1528.205625	m2
84	2.3		
	0.275		
		53.13	m2
		1629.215625	m2
1	37.975		
	0.3		
		11.3925	m2
2	17.875		
	0.3		
		10.725	m2
2	17.25		
	0.3		
		10.35	m2
2	14.95		
	0.3		
		8.97	m2
8	10.25		
	0.3		
		24.6	m2
2	10.5		

	0.3		
		6.3	m2
		72.3375	m2
		3229.75875	m2

TRAION TYPE

DESCRIPTION
1.1 Earth work
1.1.1 site clrance with a depth of 20cm
m2
1.1.2 Bulk Excavation with adept Of 30cm
1.1.3 Pit Excavation for Footing F-1
m3
Ditto Pit Excavation For Fooing F-1 up to 300cm depth
m3
TotalPit
1.1.4 Trench Excavation
1.1.4.1 Trench Excavation For Axis -A AND B-
m3
Ditto Trench Excavation Axis -C
m3
Ditto Trench Excavation Axis -D
m3
Ditto Trench Excavation Axis -1,2,3,4
m3

Ditto Trench Excavation Axis -5
m3
Ditto Trench Excavation Axis -1',2'
m3
Total Trench Excavation
1.2 Massonary Work (Stone)
1.1.4.1 For Axis -A AND B-
m3
Ditto Axis -C
m3
Ditto Axis -D
m3
Ditto Axis -1,2,3,4
m3
Ditto Axis -5
m3
Ditto Axis -1',2'
m3
1.4 Concrete Work
1.4.1 Lean Concrete For F-1- With ADepth Of 5cm
M2

Total Lean Concrete

1.4.2 C-25 Reinforced Concrete For Pad F-1-

M3

TotalC-25 Reinforced Concrete For Pad

1.4.3 C-25 Reinforced Concrete For Short Column C-1-

M3

Total C-25 Reinforced Concrete For Short Column

CONCRETE for grade beam

Concrete of grade beam For Axis -A AND B-

m3

Ditto Concrete of grade beam For Axis -C

m3

Ditto Concrete of grade beam ForAxis -D

m3

Ditto Concrete of grade beam For -1,2,3,4

m3

Ditto Concrete of grade beam For Axis -5

m3

Ditto Concrete of grade beam For Axis -1',2'

m3 total concretefor grade beam

TOTAL concrete work of sub structer

Hard core at a depth of 25cm

grade beam

TOTAL hard core

BACK FILL

cart away

BACK FILL

Form work for foting pads 'F1'

M2

Total Form Work For Pad

1.5.2 Form Work For Short Column C-1-

M2

Total Form Work For Short Column

1.5.3 Form Work For Gread Beam For Axis -A-

M2

Ditto But Axis -B

M2

Ditto But Axis C

M2

Ditto But Axis D

M2

Ditto But Axis 1,2,3,4

M2

Ditto But Axis For GB-2',5

M2
Form Work For Gread Beam
TOTAL area of form work of sub structure

2 SUPPER STRUCTURE

TIMSING	DIMENTION	SQUARING	unit
42	0.25 0.25 2.6		
		6.825	m3
		6.825	m3
6	18.75 0.25 0.4		
		11.25	m3
2	16.25 0.25 0.4		
		3.25	m3
8	11.25 0.25 0.4		
		9	m3
2	5.5 0.25 0.4		
		1.1	m3
2	7.5 0.25 0.4		
		1.5	m3
		26.1	m3
2	18.75 12.25 0.15		
		68.90625	m3
		9.7875	
2	4 2.25 0.15		
		2.7	m3
		56.41875	m3
2	2.5 1.2 0.15		
		0.9	m3

18	1.2 0.3 0.15	0.972	m3
	3		
4	1.2 0.15	2.16	
		4.032	m3
		93.37575	m3
168	0.275 2.6	120.12	M2
			m2
6	17.25 0.3	31.05	M2
2	15.25 0.3	9.15	M2
8	11.25 0.3	27	M2
2	5.25 0.3	3.15	M2
2	7.75 0.3	4.65	M2
2	37.975 0.4	30.38	m2
4	17.875 0.4	28.6	m2
4	17.25 0.4	27.6	m2
4	14.95 0.4	23.92	m2
16	10.25		

	0.4		
		65.6	m2
4	10.5		
	0.4		
		16.8	m2
		192.9	
2	38.613125		
	0.25		
		308.905	M2
		308.905	m2
		621.925	M2
1	4.76		
	2.6		
		12.376	M2
1	7.21		
	2.6		
		18.746	M2
1	6.8		
	2.6		
		17.68	M2
1	9.67		
	2.6		
		25.142	M2
1	6.92		
	2.61		
		18.0612	M2
1	2.5		
	2.6		
		6.5	
3	3.85		
	2.6		
		30.03	M2
1	14.2		
	2.6		
		36.92	M2
1	4.96		
	2.6		
		12.896	M2
		178.3512	M2

1	9.79 2.6		
		25.454	M2
1	8.81 2.6		
		22.906	M2
1	3.85 2.6		
		10.01	
1	1.98		M2
	2.6		
		5.148	
			M2
1	9.07 2.6		
		23.582	M2
1	6.22 2.6		
		16.172	M2
1	6.52 2.6		M2
		16.952	
1	7.85 2.6		
		20.41	
1	8.2		
	2.6		
		21.32	M2
1	4.35 2.6		M2
		11.31	
1	7.7 2.6		
		20.02	M2
1	3.85 2.6		
		10.01	M2
1	7.65 2.6		

		19.89	M2
		223.184	M2
		401.5352	
8	178.3512		
		1426.8096	M2
8	223.184		
		1785.472	
		3212.2816	m2
4	18.75 12.25		
		918.75	M2
		4131.0316	M2
2	401.5352		
		803.0704	M2
4	18.75 12.25		
		918.75	M2
		1721.8204	m2
1	8.75 5.35		
		46.8125	M2
1	8 3.85		
		30.8	M2
3	3.78 3.85		
		43.659	M2
1	3.8 3.76		
		14.288	M2
1	8.7 2.25		
		19.575	M2
1	10.7		

	3.75		
		40.125	M2
1	5.2 1.65		
		8.58	M2
		51.12	M2
1	5.35 3.85		
		20.5975	M2
1	3.4 3.85		
		13.09	M2
2	3.95 3.85		
		30.415	M2
1	3.8 3.76		
		14.288	M2
3	3.8 3.85		
		43.89	
1	8.7 2.5		
		21.75	M2
1	10.7 3.75		
		40.125	M2
1	5.2 1.65		
		8.58	M2
		53.295	M2
		257.84	
		104.415	

DESCRIPTION
2.1 Concrete Work
2.1.1 C-25 Reinforced Concrete For Elevation Column C-1- in G+0,G+1
TotalConcreteWorkForElevationColumn
2.1.2 C-25 Reinforced Concrete For intermidet and top tie Beam For G+0&G+1 I
Ditto Axis -D
Ditto Axis -1,2,3&4
Ditto Axis -2'.
Ditto Axis -5
TotalConcreteWorkFor Floor beam
2.1.4 Reinforced Concrete For both slab 1st floor & roof
beams filled concrete
free space in b/n axis 4&C
TotalConcreteWorkFor Slab
2.1.5 Reinforced Concrete For Stair Landing For G+0 & G+1 with 15cm raise dep

Ditto BUT For Step
ditto but for the inclined slab.
TotalConcreteWorkFor STAIR Landing AND STEP G+0 and G+1
Total concrete work for super structer
2.2 Form Work With 25mm Thickness
2.2.1 Form Work For Elevation Column For C-1 (G+0,G+1)
total fomwork for elevation column
2.2.2 Bottom Form Work FOR INTERMIDATE & TOP TIE BEAMS
For axis A,B+A' &C
Ditto BUT Axis D
Ditto BUT Axis 1,2,3&4
Ditto BUT FOR AXIS 2'
Ditto BUT for axis 5
1.5.3 Form Work For intermidate & top tie beams For Axis -A-
M2
Ditto But Axis -B
M2
Ditto But Axis C
M2
Ditto But Axis D
M2
Ditto But Axis 1,2,3,4

M2
Ditto But Axis For -2',5
M2
total form work for beams
2.2.7 Form Work For Slub of first floor & roof cover
total fomwork for slab
total form work for supper structure
2.3 Massonary Work
2.3.1 External and external HCB Wall With 20cm Thickness For G+0
axis A
Ditto axis B
Ditto BUT A'
ditto axis C
Ditto BUT D
ditto axis 1
ditto axis 2,b/n 3&4 and 4
Ditto BUT 2'
Ditto BUT axis 3
Total HCB Wall With 20 cm Thick of the ground.
HCB wall with a thicknes of 20 cm for 1st floor

axis A

Ditto axis A'

Ditto BUT B

ditto B/N axis B&C

Ditto BUT C

Ditto BUT D

Ditto BUT Axis 1

ditto but axis 2

ditto but axis 2'

ditto but axis 3

ditto but axis b/ 3&4

ditto but axis 4

ditto but axis 5

TOTAL HCB wall for 1st floor wall
TOTAL HCB wall for the entire buildin
2.4 Finishing Work
2.4.1 Plastering Of 1st,2nd & 3rd Coat
2.4.1.1 Plasterig For Extenal and internal Wall For G+0
Ditto BUT G+1
total external and internal plastering
2.4.1.2 Plastering For Sofit Slub For Ground and roof
Total Plastering
2.4.2 Painting for the intire wall in both sides
painting for the cellings of ground & roof 2 times
total external painting
2.4.3 Floor Finish G+0
2.4.3.1 Floor Finish For BEE BINARY LAB ceramic f.f
Ditto BUT EQUIPMENT STORE
Ditto BUT For HOD, BEE BOTARY &BEE MGT
Ditto BUT Toilet And Bath
Ditto BUT Corider terazo f.f

2.4.3 Floor Finish G+1

2.4.3.1 Floor Finish For room 1 ceramic f.f

Ditto BUT room 2

Ditto BUT For room3& 4

Ditto BUT Toilet And Bath

Ditto BUT For HOD, BEE BOTARY &BEE MGT

Ditto BUT Corider terazo f.f

total floor finish ceramic tile f.f
total floor finish terazo time for corider

	SUPER STRUCTURE		
	TIMSING	**DIMENTION**	**SQUARING**
	2	1.22 2.6	
			6.344
For Axis A,A'+B,C	10	0.9 2.6	
			23.4
	8	0.8 2.6	
			16.64
	4	0.6 2.6	
			6.24
	4	2.1 1.6	
			13.44
	2	2.25 1.6	
			7.2
	10	1.5 1.6	
			24
	1		8.78
	1		8.48
	1		7.58
	12		4.21
	3		8.18
	3		7.78
	16		6.5
	14		6.1
	11		11.87
	14		8.46
th	16		9.06
	3		13.79
	6		4.25

	Total door and Widow FW	105.04
12	2.974 4.25	
		151.67
34	2.854 3.49	
		338.66
32	1.244 3.49	
		138.93
36	1.36 8.88	
		434.76
8	3 8.88	
		213.12
4	2.91 1.51	
		103.36
4	9.75 11.96	
		466.44
		44
		4
		8
		8

		8
		88
		75.15
		63.15
		22.05
		16.45
		30
		10.5
		217.30
		1.77
		384.62
		13.8
		13.72
		27.52

		6.271
		6.16
		12.431
		165.12
		24.86
		189.98
		2.36
		448.36
72	8.37	
		602.64
72	14.68	
		1056.89
14	3.21	
		44.94
14	8.21	
		114.93
		1819.40
		2.36
		4293.77975
		12
		6
		8
		104
		116.85
		123

		6
		15
		14
		3
		13
		123.91
		130.43
		22
		13
		35
		14
		7
		21
		12

unit
M2
M2
M2
M2
M2
M2
M2
M2

kg
kg
kg
kg
kg
kg
kg
pcs
pcs
pcs
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kg/ml unit wei
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unit weight
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pcs

DESCRIPTION
2.5 Door And Window Schedule
2.5.1 Gelazing
2.5.1.1 Door's
Door 1 (MD1)
Ditto But For Door 2(MD2)
Ditto But For D3

Ditto But For D4

2.5.1.2 Windows
W1 For G+0,G+1
Ditto But For W2 In G+0,G+1
Ditto But For W2' In G+0,G+1
2.5.2 Metal Works (Frame Work) For MD1 IN METER
Ditto But For MD2
Ditto But For MD3
Ditto But For MD4
Ditto But For D1
Ditto But For D1'
Ditto But For D2
Ditto But For D2'
2.5.2.1 For Metal Work For Window W1
Ditto But For W2
Ditto But For W2'
Ditto But For W3
Ditto But For TW1

2.5.3 stair case
2.5.3.1 Hand rail
50*50*3mm RHS hand rail
unit weight
2.5.3.2 Middle & bottom rail
40*40*3mm RHS middle & bottom rail
unit weight
2.5.3.3 Posts
40*40*3mm RHS post
unit weight
2.5.3.4 Threads
219*40*40*3mm plates
unit weight
2.5.3.5 Metal channel
219*40*40*3mm RHS plates
unit weight
2.5.3.6 Landing
2*150*60*3mm RHS, with having unit weight of 8.88 kg/ml
5.4.7 Pillar
130*130*3mm RHS pillar
unit weight
2.5.3.7 Metal plats
a. 219*40*44*3mm
b. 2*150*60*3mm
2.5.3.8 Bolts &nuts
a. dia 16 J- bolt length 300mm
b. dia 16 J- bolt length 400mm
c. dia 20 J- bolt length 250mm

2.5.3.9 Angle iron
250*250*4mm
2.5.4 STELL STRUCTURE
2.5.4.1 RHS lattice purlin having tichness of 25*25*2.5mm with unit weight of 1.77kg/ml
purlin 1
a. upper chord
5.01*15 = 75.15
b. lower chord
4.21*15= 63.15
purlin 2
a. upper chord
3.15*7 = 22.05
b. lower chord
2.35*7=16.45
verticals for purlin 1
0.25*120= 30
verticals for purlin 2
0.25*42= 10.5
total length of purlin
ght
Total
2.5.4.2 RHS truss
30*30*3mm RHS
2.5.4.2.1 TRUSS T-1
a. Top chord
L=7.870+5.930=13.800
b. Bottom chord
L= 1.9+5.91+4.31+1.6=13.72
6.2.2 TRUSS T-2
a. Top chord

L=6.271

b. Bottom chord

L= 1.15+4.27+0.74 =6.16

summary

T-1 =6*27.52 =165.12

T-2 =2*12.431=24.862

Total RHS 30*30*3mm

ght

Total

2.5.4.2 On T-1 having thickness 30*30*3mm RHS

a. verticals

b. diagonals

2.5.4.2 On T-2 having thickness 30*30*3mm RHS

a. verticals

b. diagonals

Total 30*30*3 mm RHS

Net total 30*30*3 mm RHS

2.5.5 Bolts &nuts

a. dia 16mm J-bolt with length 400mm

b. dia 12mm I-bolt with length 100mm

c. dia 16mm J-bolt with length 110mm

6.4 Angle iron

25*25*4mm

2.7 Electrical installation

2.7.1 Electrical installation for ground floor

1 conditt

2wire

3.florescent
double
4. socket
singel
5.switch
double switch
singel switch
6.lump
2.7.2 Electrical installation for first floor
1 conditt
2,wire
ml
3.florescent
double
single
total
4. socket
single
double
total
5.switch
double

PROJECT: **EXCAVATION AND EARTH WORK.**
WORKE ITEM (1.01) **Clearing c**
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Total (1:-01)			

A= Materials Unit Cost Birr/m^2

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

ANALY

PROJECT: **EXCAVATION AND EARTH WORK.**
WORKE ITEM :(1.02) **bulk excavation to a**
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate

Total (1:-01)			

A= Materials Unit Cost 0 Birr/m^3

hour

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

EXCAVATION AND EARTH WORK.

WORKE ITEM :(1.03) **pit excav**

TOTAL QANTITY OF WORK ITEM:

Unit	Qty *	Rate	Cost per Unit

Birr/m^2 **B= Manpo**

Tot

Direct Cost

ANALYSIS SHEET FOR DIRECT

PROJECT: **EXCAVATION AND EARTH WORK.**

WORKE ITEM:(1.04) **Trench excavation t**

TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Total (1:-01)			

A= Materials Unit Cost Birr/m^3

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

ANALYSIS SHEET FOR DIRECT

PROJECT: **EXCAVATION AND EARTH WORK.**

WORKE ITEM :(1.05) **Buck fill a**

TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
selcted material	m3	1	4.63
water	m3	0.2	15
Total (1:-01)			

A= Materials Unit Cost 7.63 Birr/m^3

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

EXCAVATION AND EARTH WORK.

WORKE ITEM :(1.06) **Cart away**

TOTAL QANTITY OF WORK ITEM:

Unit	Qty *	Rate	Cost per Unit

0 Birr/m^2 **B= Manpo**

Tot

Direct Cost

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

ANALYSIS SHEET FOR DIRECT &

PROJECT: CONCRETE WORK
WORKE ITEM :(2.01a)
TOTAL QUANTITY OF WORK ITEM: 1m²

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Cement	Qtl..	1.28	230.43
Sand	m3	0.546	343.48
Gravel (02)	m3	0.73	347.83
Water	m3	0.046	117.37
Total (1:-01)			

A=Materials Unit Cost 37.33 Birr/m²

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

ANALYSIS SHEET FO

PROJECT: CONCRETE WORK
WORKE ITEM :(2.01 B) **C-25 con**
TOTAL QUANTITY OF WORK ITEM: 1m³

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate

Cement	Qtl..	3.185	231.28
Sand	m3	0.455	348.11
Gravel (02)	m3	0.6825	352.46
Water	m3	0.11375	122.02
Total (1:-01)			

A= Materials Unit Cost 1149.45 Birr/m^3

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: FORM WORKS

WORKE ITEM ;(2.02,A) zigba form worke for sub structere work

TOTAL QUANTITY OF WORK ITEM: 1

Material Cost (1:01)

Type of Material	Unit	Qty *	Rate
Eucalyptus wood 4cm diameter	m	4.85	1.00
form work 2.5cm - local wood	m2	1.050	25.00
nails of different size	Kg	0.20	23.00
mould oil	lit	0.06	5.00

Total (1:01)

A= Materials Unit Cost 36.00 Birr/m^2

Remark _____
UF: UTILIZATION FACTOR

SHEET FOR DIRECT & INDIRECT COSTS
PROJECT: FORM WORKS
WORKE ITEM ;(2.02,B) zigba form worke for super structure
TOTAL QUANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Eucalyptus wood 4cm diameter	m	2.40	1.00
form work 2.5cm - local wood	m2	1.050	25.00
nails of different size	Kg	0.20	23.00
mould oil	lit	0.06	5.00
Total (1:01)			

A= Materials Unit Cost 33.55 Birr/m^2

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT: REINFORCEMENT BAR
WORKE ITEM ;(2.03,A) dia 6mm deformed bar
TOTAL QUANTITY OF WORK ITEM: kg

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
bar	kg	1.05	35.67
Black w ier	kg	0.02	22.50
`			
Total (1:01)			

A= Materials Unit Cost 37.90 Birr/m^2

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT: REINFORCEMENT BAR
WORKE ITEM ;(2.03,B) dia 8mm deformed bar
TOTAL QUANTITY OF WORK ITEM: kg

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
bar	kg	1.05	30.23
Black w ier	kg	0.02	22.50
`			
Total (1:01)			

A= Materials Unit Cost 32.19 Birr/m^2

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT: REINFORCEMENT BAR
WORKE ITEM ;(2.03,C) 10mm dia deformed bar
TOTAL QUANTITY OF WORK ITEM: 1

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
bar	kg	1.05	27.19
Black w ier	kg	0.02	22.50

Total (1:01)			

A= Materials Unit Cost 29.00 Birr/m^2

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

SHEET FOR DIRECT & INDIRECT COSTS
PROJECT: REINFORCEMENT BAR
WORKE ITEM ;(2.03,D) 14,16and 20mm dia deformed bar
TOTAL QUANTITY OF WORK ITEM: 1

Material Cost (1:01)

Type of Material	Unit	Qty *	Rate
bar	kg	1.05	25.45
Black w ier	kg	0.02	22.50
Total (1:01)			

A= Materials Unit Cost 27.17 Birr/m^2

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT: CONCRETE WORK
WORKE ITEM :(2.04) 10*100mm fixing Expansion joint
TOTAL QUANTITY OF WORK ITEM: 1ml

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
10x100mm Styrofoam chipwood	ml	1.05	30.00
Total (1:-01)			

A= Materials Unit Cost 31.50 Birr/ml

Total(2.05)
Work item

Remark _____
UF: UTILIZATION FACTOR
***: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, E**
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

3-MASSONARY WORK

SHEET FOR DIRECT & INDIRECT COSTS
PROJECT: MASONRY WORKS

WORKE ITEM :(3.01) 50mm thick massonry foundation uneder g
TOTAL QUANTITY OF WORK ITEM: 1

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Stone	m3	1.00	191.56
cement	Qtl	1.50	231.28
sand	m3	0.42	348.11
Total (1:01)			

A= Materials Unit Cost 553.13 Birr/m^2

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

4 BLOCK WORK

SHEET FOR DIRECT & INDIRECT COSTS

PROJECT- Block work
WORK ITEM: 4.01 **200 mm. thick**
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
20 cm. Thick solid H.C.B with5%	Pcs.	13	18.39
Cement	Qt.	0.1	231.28
Sand	m^3	0.028	348.11

Water	m^3	0.02	122.02
Total (1:-01)			

A=Materials Unit Cost

274.39 Birr/m^2

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

UF: UTILIZATION FACTOR (total time/out put)
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT **METAL WORK**
WORK ITEM:7.01 D1 and D1'
TOTAL QTY. OF WORK ITEM **1**

MATERIAL COST (1:01)		
TYPE OF MATERIAL	**UNIT**	***QTY**
L	LM	6.3
T	LM	0.95
Z	LM	3.26
LOCK	pcs	1
HING	pcs	3
SCREW	pcs	18
ELECTRODE	pcs	5
sheet metal	m2	1.785
TOTAL (1:01)		
A- Material unit cost		**Bir**

Remark _____
UF: UTILIZATION FACTOR (total time/out put)
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT **METAL WORK**
WORK ITEM: 7.01B D2 and D2'
TOTAL QTY. OF WORK ITEM **1**

MATERIAL COST (1:01)

TYPE OF MATERIAL	UNIT	*QTY
L	LM	6.1
T	LM	5.05
Z	LM	0.64
LOCK	pcs	1
HING	pcs	2
SCREW	pcs	6
ELECTRODE	pcs	5
sheet metal	m2	1.344

TOTAL (1:01)

A- Material unit cost **Bir**

Remark _____
UF: UTILIZATION FACTOR (total time/out put)
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT **METAL WORK**

WORK ITEM: 7.01C MD1 and MD2

TOTAL QTY. OF WORK ITEM **1**

MATERIAL COST (1:01)

TYPE OF MATERIAL	UNIT	*QTY
L	LM	7.6
T	LM	3.81
Z	LM	8.55
LOCK	pcs	1
HING	pcs	2
SCREW	pcs	6
ELECTRODE	pcs	5
sheet metal	m2	0.93

TOTAL (1:01)

A- Material unit cost **Bir**

Remark _____

UF: UTILIZATION FACTOR (total time/out put)

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT **METAL WORK**

WORK ITEM: 7.01D MD3 and MD4

TOTAL QTY. OF WORK ITEM **1**

MATERIAL COST (1:01)

TYPE OF MATERIAL	UNIT	*QTY
L	LM	7.55
T	LM	3.76
Z	LM	8.5
LOCK	pcs	1
HING	pcs	8
SCREW	pcs	18

ELECTRODE	pcs	5
sheet metal	m2	0.885
TOTAL (1:01)		

A- Material unit cost **Bir**

Remark _____

UF: UTILIZATION FACTOR (total time/out put)

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT **METAL WORK**

WORK ITEM: 7.02A **W1,**

TOTAL QTY. OF WORK ITEM **1**

MATERIAL COST (1:01)

TYPE OF MATERIAL	UNIT	*QTY
L	LM	10.71
T	LM	10.92
Z	LM	9.45
LOCK	pcs	1
HING	pcs	6
SCREW	pcs	18
ELECTRODE	pcs	10
TOTAL (1:01)		

A- Material unit cost **Bir**

Remark _____

UF: UTILIZATION FACTOR (total time/out put)
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT **METAL WORK**
WORK ITEM: 7.02B W2,W2' and W3
TOTAL QTY. OF WORK ITEM **1**

MATERIAL COST (1:01)		
TYPE OF MATERIAL	**UNIT**	***QTY**
L	LM	10.71
T	LM	10.92
Z	LM	9.45
LOCK	pcs	1
HING	pcs	6
SCREW	pcs	18
ELECTRODE	pcs	10
TOTAL (1:01)		

A- Material unit cost **Bir**

Remark _____

UF: UTILIZATION FACTOR (total time/out put)
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT **METAL WORK**
WORK ITEM: 7.03A TW1
TOTAL QTY. OF WORK ITEM 1PCS

MATERIAL COST (1:01)		
TYPE OF MATERIAL	**UNIT**	***QTY**
L	LM	5.3

T	LM	6
Z	LM	2.52
hing	pcs	2
screw for hing	pcs	6
electrode	pcs	5
TOTAL (1:01)		

A- Material unit cost **Bir**

Remark _____

UF: UTILIZATION FACTOR (total time/out put)

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: STEEL WORK

WORK ITEM : 8.01A **RHS truss** **a) 30*30***

TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
RHS steel	kg	1.01	22.00
electroid	kg	0.9	32.20
anti rest	kg	0.25	63.39
Total (1:-01)			

A= Material unit cost 67.0475 Birr/ml

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: STEEL WORK
WORK ITEM :8.02A **RHS lattus purlin**
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
HRS	kg	1.01	22.00
electroid	pcs	0.90	1.61
anti rest	lit	0.25	63.39
Total (1:-01)			

A= Material unit cost= 39.52 Birr/ml

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: STEEL WORK
WORK ITEM :8.2 A **a)40*40*3mm rhs post**
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
R.H.S steel	Kg	1.05	12.00
Electrode	No	3.00	1.61
Total (1:-01)			

A= Material unit cost= 17.43 Birr/kg

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: STEEL WORK

WORK ITEM : 8.2,B traid a)219*40*40*3mm
TOTAL QANTITY OF WORK ITEM: 1 ml

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
metal plate	kg	1.05	45.00
electroid	kg	0.9	32.20
anti rest	kg	0.25	63.39
Total (1:-01)			

A= Material unit cost 92.0775 Birr/ml

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: STEEL WORK
WORK ITEM :8.2,C a) 50*50*3mm hand rail
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
R.H.S steel	Kg	1.05	25.00
Electrode	No	3.00	1.61

Total (1:-01)			

A= Material unit cost= 31.08 Birr/kg

Direct Cost of

Remark : _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: STEEL WORK

WORK ITEM :8.2,D **b) 40*40*3mm middle &bottom ra**

TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
R.H.S steel	Kg	1.05	23.00
Electrode	No	3.00	1.61

Total (1:-01)			

A= Material unit cost= 28.98 Birr/kg

Direct Cost of

Remark : _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT ; STEEL WORK

WORK ITEM : 8.2,E metal channel

TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
metal plate	kg	1.05	45.00
electroid	kg	0.9	32.20
anti rest	kg	0.25	63.39
Total (1:-01)			

A= Material unit cost 92.0775 Birr/ml

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT ; STEEL WORK
WORK ITEM : 8.2,F **Landing** **b) 2*150***
TOTAL QANTITY OF WORK ITEM: 1kg

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
metal plate	kg	1.05	65.22
electroid	kg	0.9	1.61
anti rest	kg	0.25	63.39
Total (1:-01)			

A= Material unit cost 85.78 Birr/ml

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: STEEL WORKS
WORK ITEM :8.2,G pillars
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
R.H.S steel	Kg	1.05	20.00
Electrode	No	3.00	1.61
Total (1:-01)			

A= Material unit cost= 25.83 Birr/kg

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: STEEL WORK
WORK ITEM: 8.3, A Metal plate
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate

metal plate with allaccessories	m2	1.05	65.22
	Total (1:01)		

A=Materials Unit Cost 68.481 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT: STEEL WORK

WORK ITEM: 8.3,B **Metal plate**

TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
metal plate with allaccessories	m2	1.05	44.02
	Total (1:01)		

A=Materials Unit Cost 46.221 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT: STEEL WORK
WORK ITEM:(8.4,A) Jbolt dia 16 400mml
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
plate 250*250*6mm	pcs	1	122.28
channel section 40*40*4mm	pcs	1.00	200.00
J-bolt dia.20mm	pcs	4	3.5
	Total (1:01)		

A=Materials Unit Cost

336.28 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT: STEEL WORK
WORK ITEM:(8.4,B) Jbolt dia 12 100mml
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
plate 250*250*6mm	pcs	1	122.28
channel section 40*40*4mm	pcs	1.00	200.00
J-bolt dia.20mm	pcs	4	3.5

	Total (1:01)		

A=Materials Unit Cost

336.28 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT: STEEL WORK
WORK ITEM:(8.4,C) Jbolt dia 16mm 110mml
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
metal angle iron suport	pcs	8	2.20
plate(200*100*5)mm	pcs	1.00	34.48
	Total (1:01)		

A=Materials Unit Cost

52.08 Birr/m^2

Remark _____

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT: FINISHING WORKS
WORK ITEM : 9.01 **First coat of cement**
TOTAL QUANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Cement	qt.	0.790	231.28
Sand	m^3	0.170	348.11
Water	m^3	0.032	122.0
Total (1:-01)			

A=Material unit cost

245.75 Birr/m^2

Direct Cost of work it

Remark : _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

ANALYSIS

PROJECT: FINISHING WORKS
WORK ITEM : 9.02 **second coat of ceme**
TOTAL QUANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Cement	qt.	0.790	231.28
Sand	m^3	0.170	348.11
Water	m^3	0.032	122.0
Total (1:-01)			

A=Material unit cost

245.75 Birr/m^2

Remark : _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

A

PROJECT: FINISHING WORKS

WORK ITEM : 9.03 **Final coat of cemen**

TOTAL QUANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Cement	qt.	0.790	231.28
Sand	m^3	0.170	348.11
Water	m^3	0.032	122.0

Total (1:-01)			

A= Material unit cost

245.75 Birr/m^3

Remark : _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: FINISHING WORKS

WORK ITEM : 9.04 **First coat**

TOTAL QUANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Cement	qt.	0.790	231.28
Sand	m^3	0.170	348.11
Water	m^3	0.032	122.0
Total (1:-01)			

A=Material unit cost

245.75 Birr/m^2

Direct Cost of work it

Remark : _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

ANALYSIS

PROJECT: FINISHING WORKS

WORK ITEM : 9.05 **second coat of ceme**

TOTAL QUANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Cement	qt.	0.790	231.28
Sand	m^3	0.170	348.11
Water	m^3	0.032	122.0
Total (1:-01)			

A=Material unit cost

245.75 Birr/m^2

Remark : _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

ANALYSIS

PROJECT: FINISHING WORKS

WORK ITEM :9.06 **Final coat of cemen**

TOTAL QUANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Cement	qt.	0.790	231.28
Sand	m^3	0.170	348.11
Water	m^3	0.032	122.0
Total (1:-01)			

A= Material unit cost

245.75 Birr/m^3

Remark : _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: FINISHING WORKS

WORK ITEM :(10.01) **Terrazzo tile**
TOTAL QUANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Tile	ml	1.02	**206.19**
Mortar	m3	0.0204	
Grouting	m3	0.001	
Cement	qtl	0.085	231.28
Sand	m3	0.015	348.11
Total (1:-01)			

A= Material unit cost 235.19 Birr/ml

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: FINISHING WORKS
WORK ITEM : 10.02 **skirting**
TOTAL QUANTITY OF WORK ITEM: **1 ml**

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
terazo tile	ml	1.05	29.57
Cement	qlt	0.02	231.28
Sand	m3	0.01	348.11

Total (1:-01)			

A= Material unit cost 38.80 Birr/ml

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.
**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: FINISHING WORKS
WORK ITEM : 10.03 150x150x6omm ceramic wall Tile
TOTAL QUANTITY OF WORK ITEM: 1

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Tile	qt.	45.3	208.7
Mortar	m^3	0.0102	
White cement grouting	m^3	0.001	
Cement	qt.	0.036	231.28
Sand	m^2	0.008	348.11
Total (1:-01)			

A= Material unit cost 9465.22 Birr/m2

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT: FLOOR FINISHISH WORKS
WORK ITEM : 10.04 **30mm thick cement**
TOTAL QUANTITY OF WORK ITEM: **1**

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
cement	qt.	0.19	231.28
sand	m^3	0.06	348.11
water	m^3	0.025	122.02
Total (1:-01)			

A= Material unit cost 67.88 Birr/m2

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

A

PROJECT: FINISHING WORKS

WORK ITEM :(11.01,A))first coat Painting enternal and externa

TOTAL QUANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Gympsum	kg	0.030	3.14
Stucco	lit	0.050	89.27
Vinavil glue	kg	0.01	61.4
Total (1:-01)			

A= Material unit cost 5.29 Birr/m^2

Direct Cost of

Remark : _____

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

ANALYSIS SHEET FOR

PROJECT: FINISHING WORKS

WORK ITEM :(11.01,B,C,D,E))second coat Painting enternal and

TOTAL QUANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate

priming coat ant-rust	lit	0.500	80.0
tinner for ant-rust	lit	0.500	75.0
Total (1:-01)			

A= Material unit cost 77.50 Birr/m2

Direct Cost of

Remark : _____
UF: UTILIZATION FACTOR
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**: INCLUSIVE OF BENEFITS, TRAVEL SUBSIDES AND COST OF O

PROJECT: GLAZING
WORK ITEM: 12.1 **4 mm thick clear gl**
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
4mm clear glass	m2	1.1	235.18
Putty	kg	0.40	15.23
	Total (1:01)		

A=Materials Unit Cost

264.79 Birr/m2

Remark _____
UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.01) **wire**
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
cable or wire	no	1	20
cap connectors	no	1	25
Dia.16mm conduit	m	4.5	5.00
PVC insulated conductor	m	4.5	10
Total (1:-01)			

A=Materials Unit Cost

112.50 Birr/ml

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION

WORK ITEM: (14.02) conduit
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Dia.16mm conduit	m	4.5	5.00
Total (1:-01)			

A=Materials Unit Cost

22.50 Birr/ml

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.03) single switch out
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Junction box	no	1	20
cap connectors	no	1	10
Dia.16mm conduit	m	4.5	5.00
PVC insulated conductor	m	4.5	10
Total (1:-01)			

A=Materials Unit Cost

97.50 Birr/no

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.04) **Double switch ou**
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Janction point	no	1	20
cap connectors	no	2	25
Dia.16mm conduit	m	4.5	5.00
PVC insulated conductor	m	4.5	10
Total (1:-01)			

A=Materials Unit Cost

137.50 Birr/no

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.05) Intermediate swit
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Junction box	no	1	20
cap connectors	no	1	10
Dia.16mm conduit	m	4.5	5.00
PVC insulated conductor	m	4.5	10
Total (1:-01)			

A=Materials Unit Cost

97.50 Birr/no

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.06) Single socket out
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Janction point	no	1	20
cap connectors	no	1	25
Dia.16mm conduit	m	4.5	5.00
PVC insulated conductor	m	4.5	10
socket outlet	no	1	60

Total (1:-01)

A=Materials Unit Cost 172.50 Birr/no

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.07) **Doublele socket c**
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Janction point	no	1	20
cap connectors	no	1	25
Dia.16mm conduit	m	4.5	5.00
PVC insulated conductor	m	4.5	10
socket outlet	no	1	60
Total (1:-01)			

A=Materials Unit Cost 172.50 Birr/no

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.08) single fluorecent l
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Fluorecent	no	1	120
Total (1:-01)			

A=Materials Unit Cost

120.00 Birr/no

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.09) Double fluorecent
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Fluorecent	no	2	120

Total (1:-01)			

A=Materials Unit Cost

240.00 Birr/no

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.10) **Light p**
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Janction point	no	1	20
cap connectors	no	1	25
Dia.16mm conduit	m	4.5	5.00
PVC insulated conductor	m	4.5	10
Total (1:-01)			

A=Materials Unit Cost

112.50 Birr/no

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.11) socket out let point
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Janction point	no	1	20
cap connectors	no	1	25
Dia.16mm conduit	m	4.5	5.00
PVC insulated conductor	m	4.5	10
socket outlet	no	1	60
Total (1:-01)			

A=Materials Unit Cost 172.50 Birr/no

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.12) Destribution boa
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
MDB with locable door and	no	1	2650
including all accessories			
Dia.16mm conduit	m	4.5	5.00
PVC insulated conductor	m	4.5	10

Total (1:-01)			

A=Materials Unit Cost

2717.50 Birr/no

UF: UTILIZATION FACTOR
*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

PROJECT- ELECTRICAL INSTALATION
WORK ITEM: (14.13a&b) Telepho
TOTAL QANTITY OF WORK ITEM:

Material Cost (1:01)			
Type of Material	Unit	Qty *	Rate
Dia.16mm conduit	ml	4.5	20
Telephon wire cable	ml	6	25
Junction box	no	1	5.00
Total (1:-01)			

A=Materials Unit Cost

245.00 Birr/no

UF: UTILIZATION FACTOR

*: INCLUSIVE OF WASTAGE, TRANSPORTING, HANDLING, ETC.

1-EXCAVATION & EARTH WORK

RATE ANALYSIS SHEET FOR DIRECT & INDIRECT CO

LABOUR HOURLY OU

of 200mm top soil EQUIPMENT HOURLY OUT P

1m2 RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily cost
	Gang chief	1	0.5	185
	D/L	2	1	115
	Total (1:02)			

B= Manpower Unit Cost 16.125 Birr/m²

Total of (1:02) 322.5

hour output 20

Direct Cost of Work Item = A+B+C =

Over head cost :

Profit Cost:

Total :

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

SIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

depth of 30cm ordinary soil EQUIPMENT

1 m³ RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed dayly cost
	DL	2	1	115
	Gang chief	1	0.5	185

	Total (1:02)			

B= Manpower Unit Cost 179.17 Birr/m^3

Total of (1:02) 322.5

hr output: 1.8

Direct Cost of Work Item = A+B+C =

Over head cost :

Profit Cost:

Total :

O

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

RATE ANALYSIS SHEET FOR DIRECT & INDIRECT CO

labour output

ation to depth 1500mm thick ordinary soil equpiment ou

1m3 RESULT:

Labor Cost (1:02)				
Labor by Grade	No.	UF	** Indexed daily Cost	daily Cost
D/L	1	0.25	115	28.75
Gang chife	2	1	225	450
Total (1:02)				478.75

ower Unit Cost 281.617647059 Birr/m3 **Equipment**

tal of (1:02) 478.75

Hourly outp 1.7

t of Work Item = A+B+C =

Over head cost : 20%

Profit Cost: 15%

Total

Total unit cost

& INDIRECT COSTS

LABOUR HO

to depth 950mm

EQUIPMENT

1 m³

RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily wage
	D/L	2	1	115
	Gang chief	1	1	225
	Total (1:02)			

B= Manpower Unit Cost 267.647058824 Birr/m³

Total of (1:02) 455

hour output 1.7

Direct Cost of Work Item = A+B+C =

Over head cost :

Profit Cost:

Total :

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

& INDIRECT COSTS

LABOUR HO

ıround ,g/beam , f/pad &under hard core

EQUIPEMEN

1 m³

RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily wage
4.63	DL	1	1	115
3	G.Chief	1	1	185
7.63	**Total (1:02)**			

B= Manpower Unit Cost 100.00 Birr/m³

Total of (1:02) 300

hr output: 3

Direct Cost of Work Item = A+B+C =

Over head cost :

Profit Cost:

Total :

.

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

surplus excavated material

1 m³

labour output

equipment output

RESULT:

Labor Cost (1:02)				
Labor by Grade	No.	UF	** Indexed daily Cost	daily Cost
Forman	1	0.2	225	45
truck driver	1	1	230	230
Loder oper	1	1	375	375
D/L	2	1	115	230

Total (1:02)	880

ower Unit Cost 44 Birr/m3 **C= Equipm**

tal of (1:02) 880

Hourly outp 20

t of Work Item = A+B+C =

Over head cost : 20%

Profit Cost: 15%

total

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

CONCRETE WORK

INDIRECT COSTS

LABOR HOU
5cm c-5 EQUIPMENT
RESULT:

	Labor (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Cost
294.95	Forman	1	0.5	225
187.54	Plasterers	2	1	300
253.22	Carpenter	1	0.25	275
5.40	Bar Bender	1	0.25	275
	Building Labourer	13	1	115
	mixer operator	1	1	175
	vibrator operator	1	1	480
746.51	**Total (1:02)**			

B=Manpower Unit Cost 234.50 Br./m^2

Total of (1:02)
hr Output

Direct Cost of work item = A+B+C =

Overhead Cost:

Profit Cost:

Total :

Total unit cost:

VERTIME RELATED TO TARGETED OUTPUT.

OR DIRECT & INDIRECT COSTS

LABOR HOU
crete EQUIPMENT
RESULT:

	Labor (1:02)			
Cost per Unit	Labor by Grade	No.	UF	** Indexed dailyCost

736.6268	Forman	1	1	225
158.39005	Plasterers	6	0.25	115
240.55395	Carpenter	1	0.25	175
13.879775	Bar Bender	1	1	225
	Building Labourer	13	1	115
	mixer operator	1	1	175
	vibrator operator	1	1	480
1149.45	**Total (1:02)**			

B=Manpower Unit Cost 216.13 Br./m^3

Total of (1:02)

hr Output

Direct Cost of work item = A+B+C =

Overhead Cost:

Profit Cost:

Total :

Total unit cost:

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

s EQUIPMENT

m^2 RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily wage
4.85	Foreman	1	0.25	225.00
26.25	Carpenter I	1	1	175.00
4.60	DL	2	1	115.00
0.30				

36.00	

B= Manpower Unit Cost 76.88 Birr/m^2

Direct Cost of Work Item = A+B+C =

Overhead 20%

Profit 15%

Total

Total unit cost:

_____

EQUIPMENT

EQUIPMENT

1 m^2 RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily wage
2.40	Foreman	1	0.25	225.00
26.25	Carpenter I	1	1	275.00
4.60	DL	2	1	115.00
0.30				
33.55				

B= Manpower Unit Cost 160.36 Birr/m^2

Direct Cost of Work Item = A+B+C =

Overhead 20%

Profit 15%

Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOR DAIL
EQUIPMENT
RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily wage
37.45	Forman	1.00	0.20	2,225.00
0.45	Bar bend l	1.00	1.00	275.00
	DL	2.00	1.00	115.00
37.90	**Total (1:02)**			

B= Manpower Unit Cost 12.67 Birr/m^2

Direct Cost of Work Item = A+B+C =

Overhead 20%

Profit 15%

Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOR DAIL
EQUIPMENT
RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily wage
31.74	Forman	1.00	0.20	225.00
0.45	Bar bend l	1.00	1.00	275.00
	DL	2.00	1.00	115.00
32.19	**Total (1:02)**			

B= Manpower Unit Cost 5.79 Birr/m^2

Direct Cost of Work Item = A+B+C =

Overhead 20%

Profit 15%

Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOR DAIL

EQUIPMENT

kg RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily wage
28.55	Forman	1.00	0.20	225.00
0.45	Bar bend l	1.00	1.00	275.00
	DL	2.00	1.00	115.00

29.00	**Total (1:02)**			

B= Manpower Unit Cost 5.79 Birr/m^2

Total of (1:02)

Direct Cost of Work Item = A+B+C =

Over head cost :

Profit Cost:

Total

Total unit cost:

LABOR DAIL

EQUIPMENT

kg RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily wage
26.72	Forman	1.00	0.20	25.00
0.45	Bar bend l	1.00	1.00	15.00
	Bar bender helper	2.00	1.00	7.50
27.17	**Total (1:02)**			

B= Manpower Unit Cost 0.37 Birr/m^2

Direct Cost of Work Item = A+B+C =

Over head cost : 20%

Profit Cost: 15%
Total

Total unit cost:

RATE ANALYSIS SHEET FOR DIRECT & IN DIRECT UNIT COST

LABOR HOU
EQUIPMENT
RESULT:

	Labor (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed hourly Cost
31.50	Foreman	1	0.25	16.88
	Carpenter	1	1	15
	DL	2	1	7.5
31.50	**Total (1:02)**			

B=Manpower Unit Cost **1.71 Birr/ml**

Total of (1:02)

Labour Out put

Direct Cost of work item = A+B+C =

Overhead Cost:

Profit Cost:

Total :

Total unit cost:

ГС.

VERTIME RELATED TO TARGETED OUTPUT.

LABOR DAIL

ground EQUIPMENT
m3 RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily wage
60.00	Forman	1.00	0.20	225.00
346.92	Mason	2.00	1.00	275.00
146.21	DL	2.00	1.00	115.00
553.13	**Total (1:02)**			

B= Manpower Unit Cost 660.00 Birr/m^2

Direct Cost of Work Item = A+B+C =

Over head cost : 20%

Profit Cost: 15%

Total

Total unit cost:

LABOR HOU

HCB wall EQUIPMENT

1 m^2 RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily wage
239.07	Forman	1	0.5	225.00
23.13	Mason l	1	1	275.00
9.75	DL	2	1	115.00

2.44				
0.00				
0.00				
274.39	**Total (1:02)**			

B= Manpower Unit Cost 102.916667

Daily Output:

Direct Cost of Work Item = A+B+C =

overhead

profit

Total

Total unit cost:

7 metal work

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT CO

PCS

		LABOUR BY COST		
RATE	**COST/UNIT**	**LABOUR BY TRADE**	**NO**	**UF**
50.00	315.00	Foreman	1	0.25
50	47.50	welder	1	1
52	169.52	D/L	2	1
330	330.00			
7	21.00			
1	18.00			
10	50.00			
500	892.50			
	1843.52		**TOTAL (1:02)**	
r/m²	**1,843.52**			

B- Manpower unit cost =

=

Direct cost of work item (**A+B+C**) :		**2,130.15**
Overhead Cost :	**15%**	319.52
Profit Cost :	**10%**	213.01
Total		2,662.68
Total Unit Cost :		**2,662.68**

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT CO

PCS

		LABOUR BY COST		
RATE	**COST/UNIT**	**LABOUR BY TRADE**	**NO**	**UF**
50.00	305.00	Foreman	1	0.25
50	252.50	welder	1	1
52	23.00	D/L	2	1
330	330.00			
7	14.00			
1	6.00			
10	50.00			
500	672.00			
	1652.50		**TOTAL (1:02)**	

r/m² 1,652.50

B- Manpower unit cost =

=

Direct cost of work item (**A+B+C**) :		**1,939.13**
Overhead Cost :	**15%**	290.87
Profit Cost :	**10%**	193.91
		2,423.91
Total Unit Cost :		**2,423.91**

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT CO

PCS

		LABOUR BY COST		
RATE	**COST/UNIT**	**LABOUR BY TRADE**	**NO**	**UF**
50.00	380.00	Foreman	1	0.25
50	190.50	welder	1	1
52	444.60	D/L	2	1
330	330.00			
7	14.00			
1	6.00			
10	50.00			
500	465.00			
	1880.10	**TOTAL (1:02)**		

r/m² 1,880.10

B- Manpower unit cost =

=

Direct cost of work item (**A+B+C**) :		**2,166.73**
Overhead Cost :	**15%**	325.01
Profit Cost :	**10%**	216.67
Total		2,708.41
Total Unit Cost :		**2,708.41**

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT CO

PCS

		LABOUR BY COST		
RATE	**COST/UNIT**	**LABOUR BY TRADE**	**NO**	**UF**
50.00	377.50	Foreman	1	0.25
50	188.00	carpentorI	1	1
52	442.00	D/L	2	1
330	330.00			
7	56.00			
1	18.00			

10	50.00			
500	442.50			
	1904.00		**TOTAL (1:02)**	

r/m² **1,904.00**

B- Manpower unit cost =

=

Direct cost of work item (**A+B+C**) :		**2,190.63**
Overhead Cost :	**15%**	328.59
Profit Cost :	**10%**	219.06
Total		2,738.28
Total Unit Cost :		**2,738.28**

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT CO

PCS

		LABOUR BY COST		
RATE	**COST/UNIT**	**LABOUR BY TRADE**	**NO**	**UF**
50.00	535.50	Foreman	1	0.25
50	546.00	weder	1	1
52	491.40	D/L	2	1
330	330.00			
7	42.00			
1	18.00			
10	100.00			
	2062.90		**TOTAL (1:02)**	

r/m² **2,062.90**

B- Manpower unit cost =

=

Direct cost of work item (**A+B+C**) :		**2,253.98**
Overhead Cost :	**15%**	338.10
Profit Cost :	**10%**	225.40
Total		2,817.48
Total Unit Cost :		**2,817.48**

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT CO

PCS

		LABOUR BY COST		
RATE	**COST/UNIT**	**LABOUR BY TRADE**	**NO**	**UF**
50.00	535.50	Foreman	1	0.25
50	546.00	weder	1	1
52	491.40	D/L	2	1
260.69	260.69			
19.58	117.48			
1.53	27.54			
1.61	16.10			
	1994.71	**TOTAL (1:02)**		

r/m² **1,994.71**

B- Manpower unit cost =

=

Direct cost of work item (**A+B+C**) :		**2,185.79**
Overhead Cost :	**15%**	327.87
Profit Cost :	**10%**	218.58
Total		2,732.24
Total Unit Cost :		**2,732.24**

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT UNIT CO

		LABOUR BY COST		
RATE	**COST/UNIT**	**LABOUR BY TRADE**	**NO**	**UF**
50.00	265.00	Foreman	1	0.25

50	300.00	welder	1	1
52	131.04	D/L	2	1
7	14.00			
1	6.00			
10	50.00			
	766.04		**TOTAL (1:02)**	

r/m² **766.04**

B- Manpower unit cost =

=

Direct cost of work item (**A+B+C**) :		**953.39**
Overhead Cost :	**15%**	143.01
Profit Cost :	**10%**	95.34
Total Unit Cost :		**1,191.74**

VERTIME RELATED TO TARGETED OUTPUT.

8. STEEL STRUCTURE

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

3mm EQUIPEMEN

1 kg RESULT

	Labor Cost (1:02)			
Cost per Unit	Labor byGrade	No.	UF	** Indexed daily wage
22.22	Forman	1	1	225
28.98	Welder	1	1	275
15.85	Carpenter	1	1	275
	D/L	2	1	115
67.05	Total (1:02)			

B=Manpower Unit Cost 7.18 Birr/ml

Total of (1:02)

hr output:

work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total :

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

a) 25*25*2.5mm EQUIPEMEN

1 kg RESULT

	Labor Cost (1:02)			
Cost per Unit	Labor by Grade	No.	UF	** Indexed daily wage
22.22	Forman	1	1	225
1.45	welder	1	1	275
15.85	D.L	2	1	115
	Carpenter	1	1	275
39.52	Total (1:02)			

B=Manpower Unit Cost 7.18

Total of (1:02)

hr output:

work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total :

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

8.2 Steel stair case

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
EQUIPEMEN
1 Kg RESULT

	Labor Cost (1:02)			
Cost per Unit	Labor by grade	No.	UF	** Indexed hourly wage
12.60	Forman	1	1	225
4.83	welder	1	1	235
	DL	2	1	175
17.43	Total (1:02)			

B=Manpower Unit Cost 5.79

Total of (1:02)

hr output:

work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total :

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COST

LABOUR HO

EQUIPEMEN
RESULT

	Labor Cost (1:02)			
Cost per Unit	Labor byGrade	No.	UF	** Indexed daily wage
47.25	Foreman	1	0.25	225
28.98	welder	1	1	235
15.85	DL	2	1	115
92.08	Total (1:02)			

B=Manpower Unit Cost 3.72 Birr/ml

Total of (1:02)

hr output:

work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total :

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
EQUIPEMEN
RESULT

1 Kg

	Labor Cost (1:02)			
Cost per Unit	Labor by grade	No.	UF	** Indexed daily wage
26.25	Forman	1	1	225
4.83	welder	1	1	235

	DL	2	1	115
31.08	Total (1:02)			

B=Manpower Unit Cost 4.93

Total of (1:02)

hr output:

work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total :

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

ail EQUIPEMEN

1 Kg RESULT

	Labor Cost (1:02)			
Cost per Unit	Labor by grade	No.	UF	** Indexed daily wage
24.15	Forman	1	1	225
4.83	welder	1	1	235
	DL	2	1	115

28.98	Total (1:02)			

B=Manpower Unit Cost 4.93

Total of (1:02)

hr output:

f work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total :

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

EQUIPEMEN

1 kg RESULT

	Labor Cost (1:02)			
Cost per Unit	Labor byGrade	No.	UF	** Indexed daily wage
47.25	Foreman	1	0.25	225
28.98	welder	1	1	235
15.85	DL	2	1	115
92.08	Total (1:02)			

B=Manpower Unit Cost 3.72 Birr/ml

Total of (1:02)

hr output:

f work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%
Total :

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
‘60*3 mm EQUIPEMEN
RESULT

	Labor Cost (1:02)			
Cost per Unit	Labor byGrade	No.	UF	** Indexed daily wage
68.48	Foreman	1	0.25	225
1.45	welder	1	1	235
15.85	DL	2	1	115
85.78	Total (1:02)			

B=Manpower Unit Cost 104.25 Birr/ml

Total of (1:02)

hr output:

work item = A + B + C =

Overhead Cost : 20%
Profit Cost: 15%
Total :

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
EQUIPEMEN
1 Kg RESULT

	Labor Cost (1:02)			
Cost per Unit	Labor by grade	No.	UF	** Indexed daily wage
21.00	Forman	1	1	225
4.83	welder	1	1	335
	DL	2	1	115
25.83	Total (1:02)			

B=Manpower Unit Cost 26.33

Total of (1:02)

hr output:

work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total :

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

a) 219*40*40*3mm LABOUR DAI
EQUIPEMEN
1 m² RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by trade	No.	UF	** Indexed daily Cost

68.481	Forman	1	0.2	225.00
	welder	1	1	235.00
	D/L	2	1	115.00
68.481	**Total (1:02)**			

B= Manpower Unit Cost 85.00

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR DAI
EQUIPEMEN
RESULT:

b) 2*150*60*3mm

1 m²

	Labor Cost (1:02)			
Cost per Unit	Labor by trade	No.	UF	** Indexed daily Cost
46.221	Forman	1	0.2	225.00
	welder	3	1	235.00
	D/L	2	1	115.00
46.221	**Total (1:02)**			

B= Manpower Unit Cost 163.33

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT C

LABOUR DAI
EQUIPEMEN
RESULT:

1pcs

	Labor Cost (1:02)			
Cost per Unit	Labor by trade	No.	UF	** Indexed daily Cost
122.28	Forman	1	0.25	225.00
200.00	welder	1	1	235.00
14	D/L	2	1	115.00
336.28	**Total (1:02)**			

B= Manpower Unit Cost 65.16

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT C

LABOUR DAI
EQUIPEMEN
RESULT:

1pcs

	Labor Cost (1:02)			
Cost per Unit	Labor by trade	No.	UF	** Indexed daily Cost
122.28	Forman	1	0.25	225.00
200.00	welder	1	1	235.00
14	D/L	2	1	115.00

336.28	**Total (1:02)**			

B= Manpower Unit Cost 65.16

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR DAI
EQUIPEMEN
1pcs RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by trade	No.	UF	** Indexed daily Cost
17.6	Forman	1	0.2	225.00
34.48	welder	1	1	235.00
	D/L	2	1	115.00
52.08	**Total (1:02)**			

B= Manpower Unit Cost 63.75

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

9. PLASTERING

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOR HOU
: plaster to vertical surfaces (1:3) EQUIPMENT
1 m² RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Grade	No.	UF	** Indexed daily wage
182.71	Forman	1	0.25	225
59.18	Plasterer	1	1	300
3.86	DL	1	1	115
245.75	Total (1:02)			

B=Manpower Unit Cost 17.95
Total of (1:02)
Daily Output
:em = A + B + C =
Overhead Cost : 20%
Profit Cost: 15%
Total:

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

S SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
ent plasterin for the vertical surface EQUIPMENT
1 m² RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Grade	No.	UF	** Indexed daily Wage
182.71	Forman	1	0.25	225
59.18	Plasterer	1	1	300
3.86	D/L	1	1	115
245.75	Total (1:02)			

B=Manpower Unit Cost 37.70

Total of (1:02)

hr Output

Direct Cost of work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total:

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

NALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

t plaster to vertical surface ((1:2) EQUIPMENT

1 m² RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Grade	No.	UF	** Indexed daily Wage
182.7	Forman	1	0.25	225
59.18	Plasterer	1	1	300
3.86	D/L	1	1	115

245.75	Total (1:02)			

B=Manpower Unit Cost 33.66

Total of (1:02)

hr Output

Direct Cost of work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total:

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOR HOU

soffit slab (1:3) EQUIPMENT

1 m² RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Grade	No.	UF	** Indexed daily Wage
182.71	Forman	1	0.25	225
59.18	Plasterer	1	1	300
3.86	DL	1	1	115
245.75	Total (1:02)			

B=Manpower Unit Cost 17.95

Total of (1:02)

Daily Output

:em = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total:

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

S SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

ent plasteri for soffit slab (1:3) EQUIPMENT

1 m² RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Grade	No.	UF	** Indexed daily Wage
182.71	Forman	1	0.25	225
59.18	Plasterer	1	1	300
3.86	D/L	1	1	115
245.75	Total (1:02)			

B=Manpower Unit Cost 37.70

Total of (1:02)

hr Output

Direct Cost of work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total:

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

; SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

t plaster to soffit slab (1:3) 1:2) EQUIPMENT

1 m² RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Grade	No.	UF	** Indexed daily Wage
182.7	Forman	1	0.25	225
59.18	Plasterer	1	1	300
3.86	D/L	1	1	115
245.75	Total (1:02)			

B=Manpower Unit Cost 33.66

Total of (1:02)

hr Output

Direct Cost of work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total:

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

10. FINISHING

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

EQUIPMENT

1 ml RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
210.3	Forman	1	1	25
0.0	Tiller	1	1	15
0.0	D/L	2	1	7.5
19.7				
5.2				
235.19	Total (1:02)			

B=Manpower Unit Cost 11.00

Total of (1:02)

hr Output

work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total:

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

EQUIPMENT

RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
31.0	Forman	1	1	25
5.32	Tiller	1	1	15
2.44	D/L	2	1	7.5

38.80	Total (1:02)			

B=Manpower Unit Cost 5.50

Total of (1:02)

hr Output

f work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total:

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

EQUIPEMEN

m2 RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
9454.1	Forman	1	0.25	225.00
0.0	Tiller	1	1	265.00
0.0	D/L	2	1	115.00
8.3				
2.8				
9465.22	**Total (1:02)**			

B=Manpower Unit Cost 183.75

f work item = A + B + C =
overhead 20%
profit 15%
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
: **screeding** EQIPMENT F
m2 RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
43.9	Forman	1	0.25	225.00
20.9	plasterer	2	1	300.00
3.1	D/L	1	1	115.00
67.88	**Total (1:02)**			

B=Manpower Unit Cost 64.27

f work item = A + B + C =
overhead 20%
profit 15%
Total

Total unit cost:

11. PAINTING

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
l wall EQUIPMENT
1 m² RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Grade	No.	UF	** Indexed daily Wage
0.1	Forman	1	0.25	225
4.46	painter	2	1	300
0.74	D/L	2	1	115
5.29	Total (1:02)			

B=Manpower Unit Cost 29.54
Total of (1:02)
Daily Output
work item = A + B + C =
Overhead Cost : 20%
Profit Cost: 15%
Total:

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

DIRECT & INDIRECT COSTS

LABOUR HO
l external wall EQUIPMENT
1 m2 RESULT :

	Labor Cost (1:02)			
Cost per Unit	Labor by Grade	No.	UF	** Indexed daily Wage

40.0	Forman	1	0.25	225
37.50	painter	2	1	300
0.00	D/L	2	1	115
77.50	Total (1:02)			

B=Manpower Unit Cost 29.54

Total of (1:02)

Daily Output

work item = A + B + C =

Overhead Cost : 20%

Profit Cost: 15%

Total:

Total Unit Cost :

VERTIME RELATED TO TARGETED OUTPUT.

12. GLAZZING WORK

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR DAI

ass with putty EQUIPEMEN

1 m2 RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by trade	No.	UF	** Indexed daily Wage
258.698	Forman	1	0	225
6.09	Glazer	1	1	225
	D/L	1	1	115
264.79	**Total (1:02)**			

B= Manpower Unit Cost 56.67

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

14. ELECTRICALE INSTALATION

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
EQUPMENT
1 ML RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
20	elctrical forman	1	0.2	205.00
25	electrictioan	1	1	275.00
22.5	DL	1	1	115.00
45				
112.50	**Total (1:02)**			

B= Manpower Unit Cost 53.88

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

EQUPMENT

1 ml RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
22.5	elctrical forman	1	0.2	205.00
	electrictioan	1	1	275.00
	DL	1	1	115.00
22.50	**Total (1:02)**			

B= Manpower Unit Cost 53.88

Direct Cost of Work Item = A+B+C =

overhead

profit

Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

let points EQUPMENT

1 NO RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
20	elctrical forman	1	0.2	205.00
10	electrictioan	1	1	275.00
22.5	DL	1	1	115.00
45				
97.50	**Total (1:02)**			

B= Manpower Unit Cost 53.88

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
t let points EQUPMENT
1 NO RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
20	elctrical forman	1	0.2	205.00
50	electrictioan	1	1	275.00
22.5	DL	1	1	115.00
45				
137.50	**Total (1:02)**			

B= Manpower Unit Cost 53.88

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

tch out let points EQUPMENT

1 NO RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
20	elctrical forman	1	0.2	205.00
10	electrictioan	1	1	275.00
22.5	DL	1	1	115.00
45				
97.50	**Total (1:02)**			

B= Manpower Unit Cost 53.88

Direct Cost of Work Item = A+B+C =

overhead

profit

Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO

let points EQUPMENT

1 NO RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
20	electrical forman	1	0.2	205.00
25	electrictioan	1	1	275.00
22.5	DL	2	1	115.00
45				
60				

172.50	**Total (1:02)**

B= Manpower Unit Cost 68.25

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
ɔut let points EQUPMENT
1 NO RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
20	electrical forman	1	0.2	205.00
25	electrictioan	1	1	275.00
22.5	DL	1	1	115.00
45				
60				
172.50	**Total (1:02)**			

B= Manpower Unit Cost 53.88

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
ight fittings EQUPMENT
1 NO RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
120	electrical forman	1	0.2	205.00
	electrictioan	1	1	275.00
	DL	1	1	115.00
120.00	**Total (1:02)**			

B= Manpower Unit Cost 53.88

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
light fittings EQUPMENT
1 NO RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
240	electrical forman	1	0.2	205.00
	electrictioan	1	1	275.00
	DL	1	1	115.00

240.00	**Total (1:02)**			

B= Manpower Unit Cost 53.88

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
oints EQUPMENT
1 NO RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
20	electrical forman	1	0.2	205.00
25	electrictioan	1	1	275.00
22.5	DL	1	1	115.00
45				
0				
112.50	**Total (1:02)**			

B= Manpower Unit Cost 53.88

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
:s EQUPMENT
1 NO RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
20	electrical forman	1	0.2	205.00
25	electrictioan	1	1	275.00
22.5	DL	1	1	115.00
45				
60				
172.50	**Total (1:02)**			

B= Manpower Unit Cost 53.88

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
rds(MDB--TD1,TD2) EQUPMENT
1 NO RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
2650	electrical forman	1	0.2	205.00
0	electrictioan	1	1	275.00
22.5	DL	1	1	115.00
45				

0				
2717.50	**Total (1:02)**			

`

53.88

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

ANALYSIS SHEET FOR DIRECT & INDIRECT COSTS

LABOUR HO
n points EQUPMENT
1 NO RESULT:

	Labor Cost (1:02)			
Cost per Unit	Labor by Trade	No.	UF	** Indexed daily Wage
90	electrical forman	1	0.2	205.00
150	electrictioan	2	1	275.00
5.00	DL	1	1	115.00
245.00	**Total (1:02)**			

B= Manpower Unit Cost 88.25

Direct Cost of Work Item = A+B+C =
overhead
profit
Total

Total unit cost:

STS

TPUT: 20 m^2/day

'UT 20 m^2/day

22.58 Birr/m^2

	Equipment Cost (1:03)		
daily cost	Type of Equipment	No.	Hourly Rental
92.5	Tools	4	3.00
230			
0			
322.5	**Total (1:03)**		

C= Equipment Unit Cost 0.60

Total of (1:03) 12.00

hourlyoutput: 20

16.73 Birr/m^2

20% 3.35 Birr/m^2

15% 2.51 Birr/m^2

22.58 Birr/m^2

22.58 Birr/m^2

URLY OUTPUT: 1.80

' HOURLY OUT PUT 1.8

248.36 Birr/m^3

Equipment Cost (1:03)			
daily cost	Type of Equipment	No.	hr Rental
230	Tools	4	3.00
92.5			

0			
322.5	**Total (1:03)**		

C= Equipment Unit Cost 4.80

Total of (1:03) 12

hr output:

183.97 Birr/m^3

20% 36.79 "

15% 27.60 "

64.39 Birr/m^3

248.36 Birr/m^3

STS

t 1.7 m3/day

ıtput 1.7 m3/day

389.71 Birr/m3

Equipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	hourly Cost
tools	4	3.00	12
Total (1:03)			12.00

Unit Cost

7.06 Birr/m3

Total of (1:03) 12.00

1.70

288.68 Birr/m3

57.74 Birr/m3

43.30 Birr/m3

389.71 Birr/m3

389.71 Birr/m3

URLY OUTPUT: 1.70

' HOURLY OUT PUT 1.7

370.85 Birr/m^3

	Equipment Cost (1:03)		
daily wage	Type of Equipment	No.	Hourly Rental
230	Tools	4	3.00
225			
455	**Total (1:03)**		

C= Equipment Unit Cost 7.06

Total of (1:03) 12.00

hourlyoutput: 1.7

274.71 Birr/m^3

20% 54.94 "

15% 41.21 "

370.85 Birr/m^3

370.85 Birr/m^3

URLY OUTPUT: 3.00 m^3/day

'TOUT PUT : 3.00 m^3/day

148.00 Birr/m^3

Equipment Cost (1:03)			
daily wage	Type of Equipment	No.	hr Rental
115	Tools	2	3.00
185			
300	**Total (1:03)**		

C= Equipment Unit Cost 2.00

	Total of (1:03)		6
	hr output:	3	
		109.63	Birr/m^3
20%		21.93	"
15%		16.44	"
		148.00	Birr/m^3

. .

148.00 Birr/m^3

20 m3/day
60 m3/day

108.92 Birr/m3

ipment Cost (1:03)			
Type of Equipment	No.	hourly Rental	hourly Cost
loader	1	1800.00	1800
D/truk	1	400	400
tool	2	0.4	0.8
Total (1:03)			2200.80

ent Unit Cost 36.68 birr/m3

Total of (1:03)	2200.80	
	60.00	
80.68	Birr/m3	
16.14	"	
12.10	"	
108.92	Birr/m3	
108.92		

RLY OUTPUT 10 m^2 /day

HOURLY OUTPUT 10 m^2/ day

403.43 Birr/m^3

Equipment Cost (1:03)			
daily Cost	Type of Equipment	No.	hr Rental
112.5	tools	4	3.00
600	Mixer 750 Liters	1	191.30
68.75	Vibrator	1	66.84
68.75			
1495			
2345.00	**Total (1:03)**		

C=Equipment Unit Cost 27.014

Total of (1:03)

hr output:

	298.84	Birr/m^2
20%	59.77	Birr/m^2
15%	44.83	Birr/m^2
	403.43	Birr/m^2

403.43 Birr/m^2

RLY OUTPUT: 10.00 m^3 / day

HOURLY OUTPUT 10.00 m^3 /day

1870.97 Birr/m^3

Equipment Cost (1:03)			
daily Cost	Type of Equipment	No.	hr Rental

225	mixer	1	191.30
172.5	tool	4	3
43.75	vibrator	1	66.1
225			
1495			
	Total (1:03)		
2161.25			

C=Equipment Unit Cost 20.33

Total of (1:03)

hr Output

	1385.91	Birr/m^3
	277.18	"
20%	207.89	"
15%	1870.97	Birr/m^3
	1870.97	Birr/m^3

URLY OUTPUT: 6.00 m^2/day.

' HOURLY OUTPU 6 m^2/day

155.08 Birr/m^2

Equipment Cost (1:03)

	Type of Equipment	No.	Daily Rental
daily wage	tools	4	3.00
56.25			
175.00			
230.00			
	Total (1:03)		

461.25

2.00

C=Equipment Unit Cost

114.88	Birr/m^2
22.98	
17.23	
155.08	
155.08	Birr/m^3

' HOURLY OUT PUT: 3.50

' HOURLY OUT PUT: 3.5

266.40 Birr/m^2

Equipment Cost (1:03)

	Type of Equipment	No.	Daily Rental
Daily wage	tools	4	3.00
56.25			
275.00			
230.00			
	Total (1:03)		
561.25			

3.43

C=Equipment Unit Cost

197.34	Birr/m^2
39.47	
29.60	
266.40	

266.40 Birr/m^3

Y OUTPUT: 75 kg/day
' HOURLY OUT PUT: 75 kg/day

68.85 Birr/kg

Equipment Cost (1:03)

	Type of Equipment	No.	Daily Rental
Daily wage	Tools	4.00	3.00
445.00	cut machine	1.00	20.00
275.00			
230.00			
	Total (1:03)		
950.00			

0.43

C=Equipment Unit Cost

51.00 Birr/kg
10.20
7.65
68.85
68.85 Birr/m^3

Y OUTPUT: 95 kg/day
' HOURLY OUT PUT: 95 kg/day

51.73 Birr/kg

Equipment Cost (1:03)

	Type of Equipment	No.	Daily Rental
Daily wage	Tools	4.00	3.00
45.00	cut machine	1.00	20.00
275.00			
230.00			
	Total (1:03)		
550.00			

0.34

C=Equipment Unit Cost

38.32	Birr/kg
7.66	
5.75	
51.73	
51.73	Birr/m^3

Y OUTPUT: 95 kg/day

' HOURLY OUT PUT: 95 kg/day

47.27 Birr/kg

Equipment Cost (1:03)

	Type of Equipment	No.	Daily Rental
Daily wage	Tools	3.00	0.40
45.00	cut machine	1.00	20.00
275.00			
230.00			

	Total (1:03)		
550.00			

0.23

C=Equipmer Total of (1:03)

	35.02	Birr/kg
	7.00	Birr/kg
20%	5.25	Birr/kg
15%	47.27	
	47.27	Birr/kg

Y OUTPUT: 95 kg/day

' HOURLY OUT PUT: 95 kg/day

37.49 Birr/kg

Equipment Cost (1:03)

	Type of Equipment	No.	Daily Rental
Daily wage	Tools	4.00	3.00
5.00	cut machine	1.00	20.00
15.00			
15.00			
	Total (1:03)		
35.00			

0.23

C=Equipment Unit Cost

	Birr/kg
27.77	Birr/kg
5.55	Birr/kg

4.17
37.49
Birr/kg
37.49

RLY OUTPUT: 20 ml /day
' HOURLY OUT PUT: 20 ml /day

42.77 Birr/ml

	ipment Cost (1:03)		
hourly Cost	Type of Equipment	No.	hourly Rental
4.22	tools	4	3.00
15			
15			
34.22	**Total (1:03)**		

C=Equipment Unit Cost **0.6**

Total of (1:03)

Equipment Out put

33.81 Birr/ml

15% **5.07 "**

10% **3.89 "**

42.77 Birr/ml

42.77 Birr/ml

Y OUTPUT: 1.25 m3/day

' HOURLY OUT PUT: 1.25 m3/day

1640.31 Birr/m3

	ipment Cost (1:03)		
Daily wage	Type of Equipment	No.	Daily Rental
45.00	Tools	4.00	3.00
550.00			
230.00			
825.00	**Total (1:03)**		

C=Equipment Unit Cost 1.92

1215.05 Birr/m^2

243.01 Birr/kg Birr/m^2

182.26 Birr/kg Birr/m2

1640.31 Birr/m2

1640.31 Birr/kg

RLY OUTPUT: 6.00

' HOURLY OUT PUT 6

512.06 Birr/m^2

	ipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Daily Rental
112.50	tool	4	3.00
275.00			
230.00			

617.50	**Total (1:03)**		

Birr/m² C=Equipment Unit Cost 2

	379.302146667	Birr/m²
20%	75.86	
15%	56.90	
	512.06	
	512.06	Birr/m²

STS

LABOUR HOURLY OUT PUT **2**

EQUIPMENT HOURLY OUT PUT 2

RESULT **2,662.7**

(1:02) **EQUIPMENT C**

** INDEXED DAILY COST	DAILY COST	TYPE OF EQUIPMENT	NO
225	56.25	tools	4.0
275	275		
115	230		
	561.25		**TOTAL (1:03)**

TOTAL (1:02)

HOURLY OUT PUT

280.63 Birr/m²

C- Equipm. unit cost =

=

Birr/m²
Birr/m²
Birr/m²

Birr/m²

STS
LABOUR HOURLY OUT PUT **2**
EQUIPMENT HOURLY OUT PUT 2
RESULT **2,423.9**

(1:02) **EQUIPMENT C**

** INDEXED DAILY COST	DAILY COST	TYPE OF EQUIPMENT	NO
225	56.25	tools	4
275	275		
115	230		
	561.25		**TOTAL (1:03)**

TOTAL (1:02)
HOURLY OUT PUT
280.63 Birr/m² **C- Equipm. unit cost =**
=
Birr/m²
Birr/m²
Birr/m²

Birr/m²

STS
LABOUR HOURLY OUT PUT 2

EQUIPMENT HOURLY OUT PUT 2

RESULT **2,708.4**

(1:02) **EQUIPMENT C**

** INDEXED DALY COST	DALY COST	TYPE OF EQUIPMENT	NO
225	56.25	tools	4
275	275		
115	230		
	561.25		**TOTAL (1:03)**

TOTAL (1:02)

HOURLY OUT PUT **C- Equipm. unit cost =**

280.63 Birr/m² **=**

Birr/m²

Birr/m²

Birr/m²

Birr/m²

STS

LABOUR HOURLY OUT PUT 2

EQUIPMENT HOURLY OUT PUT 2

RESULT **2,738.3**

(1:02) **EQUIPMENT C**

** INDEXED DALY COST	DAILY COST	TYPE OF EQUIPMENT	NO
225	56.25	tools	4
275	275		
115	230		

	561.25		**TOTAL (1:03)**

TOTAL (1:02)

C- Equipm. unit cost =

HOURLY OUT PUT

280.63 Birr/m² **=**

Birr/m²

Birr/m²

Birr/m²

Birr/m²

STS

LABOUR HOURLY OUT PUT	3.00
EQUIPMENT HOURLY OUT PUT	3.00
RESULT	**2,817.5**

(1:02) **EQUIPMENT C**

** INDEXED DAILY COST	DAILY COST	TYPE OF EQUIPMENT	NO
225	56.25	tools	4
275	275	welding machin	1
115	230		
	561.25		**TOTAL (1:03)**

TOTAL (1:02)

C- Equipm. unit cost =

HOURLY OUT PUT

187.08 Birr/m² **=**

Birr/m²

Birr/m²

Birr/m²

Birr/m²

STS

LABOUR HOURLY OUT PUT 3.00

EQUIPMENT HOURLY OUT PUT 3.00

RESULT **2,732.2**

(1:02) **EQUIPMENT C**

** INDEXED DAILY COST	DAILY COST	TYPE OF EQUIPMENT	NO
225	56.25	tools	4
275	275	welding machin	1
115	230		
	561.25		**TOTAL (1:03)**

TOTAL (1:02)

C- Equipm. unit cost =

HOURLY OUT PUT

187.08 Birr/m² **=**

Birr/m²

Birr/m²

Birr/m²

Birr/m²

STS

LABOUR HOURLY OUT PUT **3**

EQUIPMENT HOURLY OUT PUT 3

RESULT **1,191.7**

(1:02) **EQUIPMENT C**

** INDEXED DAILY COST	DAILY COST	TYPE OF EQUIPMENT	NO
225	56.25	tools	2

275	275		
115	230		
	561.25		**TOTAL (1:03)**

TOTAL (1:02)

C- Equipm. unit cost =

HOURLY OUT PUT

187.08 Birr/m² **=**

Birr/m²

Birr/m²

Birr/m²

Birr/m²

URLY OUTPUT: 140

NT HOURLY OUTPUT 140

102.55 Birr/kg

Equipment Cost (1:03)			
daily wage	Type of Equipment	No.	hr Rental
225.00	tools	4	3.00
275.00	Welding machine	1	
275.00			
230.00			
1005.00	Total (1:03)		

C=Equipment Unit Cost 0.09

Total of (1:03)

hr output:

74.31 Birr/ml

14.86 "

13.38 "

102.55 "

102.55 Birr/ml

URLY OUTPUT: 140 kg/day

NT HOURLY OUTPUT 140 kg/day

62.37 Birr/kg

Equipment Cost (1:03)

daily wage	Type of Equipment	No.	hr Rental
225.00	Tools	4	3.00
275.00	Welding machine		
230.00			
275.00			
1005.00	Total (1:03)		

Birr/ml C=Equipment Unit Cost 0.09

Total of (1:03)

hr output:

46.78 Birr/ml

7.45 Birr/ml

8.13 Birr/ml

62.37 Birr/ml

62.37 Birr/ml

URLY OUTPUT: 140
NT HOURLY OUT PUT 140

41.65 Birr/kg

Equipment Cost (1:03)			
hourly wage	Type of Equipment	No.	hourly Rental
225.00	Welding mac.	1	60.00
235.00	Grinder	1	25.00
350.00	Tools	4	0.40
810.00	Total (1:03)		

Birr/kg C=Equipment Unit Cost 0.62

Total of (1:03)

hr output:

23.83 Birr/kg
6.02 Birr/kg
4.48 Birr/kg
34.33 Birr/kg

34.33 Birr/kg

'S

URLY OUTPUT: 140

NT HOURLY OUTPUT 140

132.23 Birr/ml

Equipment Cost (1:03)			
daily wage	Type of Equipment	No.	hr Rental
56.25	tools	6	0.40
235.00			
230.00			
521.25	Total (1:03)		

C=Equipment Unit Cost 0.017

Total of (1:03)

hr output:

95.82 Birr/ml
19.16 "
17.25 "
132.23 "

132.23 Birr/ml

URLY OUTPUT: 140

NT HOURLY OUT PUT 140

49.04 Birr/kg

Equipment Cost (1:03)			
daily wage	Type of Equipment	No.	hourly Rental
225.00	Welding mac.	1	60.00
235.00	Grinder	1	25.00

230.00	Tools	4	0.40
690.00	Total (1:03)		

Birr/kg C=Equipment Unit Cost 0.62

Total of (1:03)

hr output:

36.63 Birr/kg

6.02 Birr/kg

6.40 Birr/kg

49.04 Birr/kg

49.04 Birr/kg

URLY OUTPUT: 140

NT HOURLY OUT PUT 140

46.63 Birr/kg

Equipment Cost (1:03)

daily wage	Type of Equipment	No.	hourly Rental
225.00	Welding mac.	1	60.00
235.00	Grinder	1	25.00
230.00	Tools	4	0.40

690.00	Total (1:03)		

Birr/kg C=Equipment Unit Cost 0.62

Total of (1:03)

hr output:

34.53 Birr/kg
6.02 Birr/kg
6.08 Birr/kg
46.63 Birr/kg

46.63 Birr/kg

URLY OUTPUT: 140 kg/day
NT HOURLY OUTPUT 140 kg/day

132.32 Birr/ml

Equipment Cost (1:03)			
daily wage	Type of Equipment	No.	hr Rental
56.25	tools	4	3.00
235.00			
230.00			
521.25	Total (1:03)		

C=Equipment Unit Cost 0.09

Total of (1:03)

hr output:

95.89 Birr/ml
19.18 "

17.26 "
132.32 "

132.32 Birr/ml

URLY OUT PUT 5 kg/day
NT HOURLY OUTPUT 5 kg/day

264.72 Birr/kg

Equipment Cost (1:03)			
daily wage	Type of Equipment	No.	hr Rental
56.25	tools	3	3.00
235.00			
230.00			
521.25	Total (1:03)		

C=Equipment Unit Cost 1.80
Total of (1:03)
hr output:
191.83 Birr/ml
38.37 "
34.53 "
264.72 "

264.72 Birr/ml

URLY OUTPUT: 30 kg/day
NT HOURLY OUT PUT 30 kg/day

72.54

Equipment Cost (1:03)			
daily wage	Type of Equipment	No.	hourly Rental
225.00	Tools	4	3.00
335.00			
230.00			
790.00	Total (1:03)		

Birr/kg C=Equipment Unit Cost 0.40

Total of (1:03)

hr output:

52.56 Birr/kg
10.51 Birr/kg
9.46 Birr/kg
72.54 Birr/kg

72.54 Birr/kg

LY OUTPUT: 6 m2/day
T DAILY OUT PUT: 6 m2/day

207.20 Birr/m^2

	Equipment Cost (1:03)		
daily Cost	Type of Equipment	No.	Hourly Rental

45	Tools	3	0.4
235			
230			
510.00	**Total (1:03)**		

Birr/m² **C=Equipment Unit Cost** 0.00

153.48 Birr/m²
20% 30.70
15% 23.02
207.20

207.20 Birr/m²

LY OUTPUT: 6 m2/day
T DAILY OUT PUT: 6 m2/day

282.90 Birr/m²

	Equipment Cost (1:03)		
daily Cost	Type of Equipment	No.	Hourly Rental
45	Tools	4	3
705			
230			
980.00	**Total (1:03)**		

Birr/m² **C=Equipment Unit Cost** 0.00

209.55 Birr/m²
20% 41.91
15% 31.43
282.90

282.90 Birr/m²

COSTS

LY OUTPUT: 8 pcs/day

T DAILY OUT PUT: 8 pcs/day

534.87 Birr/pcs

	Equipment Cost (1:03)		
daily Cost	Type of Equipment	No.	Hourly Rental
56.25	tools	5	0.16
235			
230			
521.25	**Total (1:03)**		

Birr/m² **C=Equipment Unit Cost**

10

411.44 Birr/m²

20% 82.29

10% 41.14

534.87

534.87 Birr/m²

COSTS

LY OUTPUT: 8 pcs/day

T DAILY OUT PUT: 8 pcs/day

522.73 Birr/pcs

	Equipment Cost (1:03)		
daily Cost	Type of Equipment	No.	Hourly Rental
56.25	tools	4	3
235			
230			

521.25	**Total (1:03)**		

Birr/m^2 **C=Equipment Unit Cost**

0.66666666667

	402.10	Birr/m^2
20%	80.42	
10%	40.21	
	522.73	
	522.73	Birr/m^2

LY OUTPUT: 8 pcs/day

T DAILY OUT PUT: 8 pcs/day

151.45 Birr/pcs

	Equipment Cost (1:03)		
daily Cost	Type of Equipment	No.	Hourly Rental
45	tools	4	3
235			
230			
510.00	**Total (1:03)**		

Birr/m^2 **C=Equipment Unit Cost**

0.66666666667

	116.50	Birr/m^2
20%	23.30	
10%	11.65	
	151.45	

151.45 Birr/m²

RLY OUTPUT: 26.25 m2/day
T HOURLY OUTPUT 26.25 m2/day
273.66 Birr/m²

	Equipment Cost (1:03)		
dailywage	Type of Equipment	No.	hr Rental
56.25	Hand tools	2	3
300.00			
115.00			
471.25	Total (1:03)		

Birr/m² C=Equipment Unit Cost 0.23

Total of (1:03)
Daily output:

263.93 Birr/m²
5.12 Birr/m²
4.61 Birr/m²
273.66 Birr/m²

273.66 Birr/m²

URLY OUTPUT: 12.5 m2/day
T HOURLY OUTPUT 12.5 m2/day
307.01 Birr/m²

	Equipment Cost (1:03)		
daily wage	Type of Equipment	No.	hr Rental
56.25	Hand tools	2	3
300.00			
115.00			
471.25	Total (1:03)		

Birr/m²	C=Equipment Unit Cost	0.48
	Total of (1:03)	
	hr output:	
283.93	Birr/m²	
12.15	Birr/m²	
10.93	Birr/m²	
307.01	Birr/m²	
307.01	Birr/m²	

URLYOUTPUT: 14 m2/day
T HOURLY OUTPUT 14 m2/day
294.03 Birr/m²

	Equipment Cost (1:03)		
daily wage	Type of Equipment	No.	hr Rental
56.25	Hand tools	2	3
300.00			
115.00			

471.25	Total (1:03)		

Birr/m^3	C=Equipment Unit Cost	0.43
	Total of (1:03)	
	hr output:	
279.84	Birr/m^2	
7.47	Birr/m^2	
6.72	Birr/m^2	
294.03	Birr/m^2	
294.03	Birr/m^2	

RLY OUTPUT:	26.25	m2/day
T HOURLY OUTPUT	26.25	m2/day
273.66	Birr/m^2	

	Equipment Cost (1:03)		
daily wage	Type of Equipment	No.	hr Rental
56.25	Hand tools	2	3
300.00			
115.00			
471.25	Total (1:03)		

Birr/m^2	C=Equipment Unit Cost	0.23
	Total of (1:03)	
	Daily output:	
263.93	Birr/m^2	
5.12	Birr/m^2	
4.61	Birr/m^2	
273.66	Birr/m^2	
273.66	Birr/m^2	

URLY OUTPUT: 12.5 m2/day
T HOURLY OUTPUT 12.5 m2/day
307.25 Birr/m^2

	Equipment Cost (1:03)		
daily wage	Type of Equipment	No.	hr Rental
56.25	Hand tools	3	3
300.00			
115.00			
471.25	Total (1:03)		

Birr/m^2	C=Equipment Unit Cost	0.72
	Total of (1:03)	
	hr output:	
284.17	Birr/m^2	
12.15	Birr/m^2	
10.93	Birr/m^2	
307.25	Birr/m^2	

307.25 Birr/m²

URLYOUTPUT: 14 m2/day
T HOURLY OUTPUT 14 m2/day
294.03 Birr/m²

	Equipment Cost (1:03)		
daily wage	Type of Equipment	No.	hr Rental
56.25	Hand tools	2	3
300.00			
115.00			
471.25	Total (1:03)		

Birr/m³ C=Equipment Unit Cost 0.43

Total of (1:03)
hr output:

279.84 Birr/m²
7.47 Birr/m²
6.72 Birr/m²
294.03 Birr/m²

294.03 Birr/m²

URLY OUTPUT: 5 ml/day

T HOURLY OUTPUT 5 ml/day

293.11 Birr/ml

Equipment Cost (1:03)			
daily wage	Type of Equipment	No.	hr Rental
25.00	Tool	2	3
15.00			
15.00			
55.00	Total (1:03)		

Birr/ml C=Equipment Unit Cost 1.20

Total of (1:03)
hr output:

247.39 Birr/ml
24.06 Birr/ml
21.66 Birr/ml
293.11 Birr/ml

293.11 Birr/ml

URLY OUTPUT: 10 ml/day
T HOURLY OUTPUT 10 ml/day

90.62 Birr/ml

Equipment Cost (1:03)			
daily wage	Type of Equipment	No.	hr Rental
25.00	Tool	2	3
15.00			
15.00			

55.00	Total (1:03)		

Birr/ml C=Equipment Unit Cost 0.60

Total of (1:03)

hr output:

44.90 Birr/ml
24.06 Birr/ml
21.66 Birr/ml
90.62 Birr/ml

90.62 Birr/ml

URLY OUTPUT: 3 m2/day
T HOURLY OUT PUT: 3.00 m2/day

309.85 Birr/m2

	Equipment Cost (1:03)		
daily wage	Type of Equipment	No.	Hourly Rental
56.25	Tool	2	3
265.00			
230.00			
551.25	**Total (1:03)**		

Birr/m2 **C=Equipment Unit Cost** 0.27

229.52 Birr/ml
45.90
34.43
309.85
309.85 Birr/m2

URLY OUTPUT: 12 m2/day
HOURLY OUTPUT 12 m2/day

179.19 Birr/m2

	Equipment Cost (1:03)		
daily wage	Type of Equipment	No.	Hourly Rental
56.25	Tool	2	3
600.00			
115.00			
771.25	**Total (1:03)**		

Birr/m2 **C=Equipment Unit Cost** 0.58

132.73 Birr/m2
26.55
19.91
179.19
179.19 Birr/m2

URLY OUTPUT: 30 m2/day
T HOURLY OUTPUT 30 m2/day

53.16 Birr/m^2

Equipment Cost (1:03)			
daily wage	Type of Equipment	No.	hr Rental
56.25	Hand tools	2	3
600.00			
230.00			
886.25	Total (1:03)		

Birr/m^2 C=Equipment Unit Cost 0.20

Total of (1:03)

Daily output:

35.04 Birr/m^2

9.54 Birr/m^2

8.58 Birr/m^2

53.16 Birr/m^2

53.16 Birr/m^2

URLY OUTPUT: 30 m2/day
T HOURLY OUTPUT 30 m2/day

125.46 Birr/m2

Equipment Cost (1:03)			
daily wage	Type of Equipment	No.	hr Rental

56.25	Hand tools	3	3
600.00			
230.00			
886.25	Total (1:03)		

Birr/m2 C=Equipment Unit Cost 0.30

Total of (1:03)

Daily output:

107.34 Birr/m2

9.54 Birr/m2

8.58 Birr/m2

125.46 Birr/m2

125.46 Birr/m2

LY OUTPUT: 6 m2/day

T DAILY OUT PUT: 6 m2/day

435.32 Birr/m2

	Equipment Cost (1:03)		
daily Cost	Type of Equipment	No.	Hourly Rental
0	tool	2	3
225			
115			
340.00	**Total (1:03)**		

Birr/m2 **C=Equipment Unit Cost** 1.00

	322.46	Birr/m2
20%	64.49	
15%	48.37	
	435.32	
	435.32	Birr/m2

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

226.13 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	3	3.00
275			
115			
431.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

	167.50	Birr/no
20%	33.50	
15%	25.13	
	226.13	
	226.13	Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

104.63 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	3	3.00
275			
115			
431.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

	77.50	Birr/no
20%	15.50	
15%	11.63	
	104.63	
	104.63	Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

205.37 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	2	3.00
275			
115			
431.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

	152.13	Birr/no
20%	30.43	
15%	22.82	
	205.37	
	205.37	Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

250.97 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	2	0.40
275			
115			
0			
431.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

	192.13	Birr/no
20%	33.63	
15%	25.22	
	250.97	
	250.97	Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

205.37 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	2	3.00
275			
115			
0			
431.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

	152.13	Birr/no
20%	30.43	
15%	22.82	
	205.37	
	205.37	Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

326.03 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	2	3.00
275			
230			

546.00	**Total (1:03)**

Birr/no C=Equipment Unit Cost

	241.50	Birr/no
20%	48.30	
15%	36.23	
	326.03	
	326.03	Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

272.55 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	2	3.00
275			
115			
0			
0			
0			
431.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

	227.13	Birr/no
20%	45.43	
15%		
	272.55	
	272.55	Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

235.74 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	2	3.00
275			
115			
0			
0			
0			
431.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

	174.63	Birr/no
20%	34.93	
15%	26.19	
	235.74	
	235.74	Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

397.74 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	2	3.00
275			
115			
0			
0			

0			
431.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

	294.63	Birr/no
20%	58.93	
15%	44.19	
	397.74	
	397.74	Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

213.64 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	2	3.00
275			
115			
0			
0			
431.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

	167.13	Birr/no
20%	26.58	
15%	19.94	
	213.64	
	213.64	Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

306.62 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	2	3.00
275			
115			
0			
0			
0			
431.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

227.13 Birr/no

20% 45.43

15% 34.07

306.62

306.62 Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

3851.49 Birr/no

Equipment Cost (1:03)			
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	2	3.00
275			
115			
0			

0			
0			
431.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

	2772.13	Birr/no
20%	616.78	
15%	462.59	
	3851.49	
	3851.49	Birr/no

HOURLY OUTPUT: 8 no/day

HOURLY OUTPUT 8 no/day

450.90 Birr/no

	Equipment Cost (1:03)		
daily Wage	Type of Equipment	No.	Hourly Rental
41	Tools	2	3.00
550			
115			
0			
0			
706.00	**Total (1:03)**		

Birr/no C=Equipment Unit Cost

	334.00	Birr/no
20%	66.80	
15%	50.10	
	450.90	
	450.90	Birr/no

HourlyCost
12
0
12.00

Birr/m^2

m^3/day

m^3/day

Hr cost
12
0

0
12

Birr/m3

m^3/day
m^3/day

HourlyCost
12
12.00

Birr/m^3

hr Cost
6
0
0
6

Birr/m^3

hr cost
12
191.3
66.84
0
0
0
0
0
270.14

hr Cost

191.3
12
203.3

Br./m^3

hourly cost
12.00
12.00

Birr/m^2

m^2/day
m^2/day

Daily Cost
12.00
12.00

Birr/m^2

Daily Cost
12
20
32

Birr/m^2

Daily Cost
12
20
32

Birr/m^2

Daily Cost
1.6
20

21.6

Birr/m^2

Daily Cost
1.6
20
21.6

Birr/m^2

hourly Cost
12
0
0
0
0
0
0
0
12

Birr/ml

Daily Cost
12.00
2.4

Birr/m^2

m^2/day
m2/day

Hourly Cost
12.00

12.00

Birr/m²

pcs/day
pcs/day
Birr/m²

OST (1:03)	
HOURLY RENTAL	**HOURLY COST**
3.00	12
	12

TOTAL (1:03)

HOURLY OUT PUT

6 **Birr/m²**

pcs/day
pcs/day
Birr/m²

OST (1:03)	
HOURLY RENTAL	**HOURLY COST**
3	12
	12

TOTAL (1:03)

HOURLY OUT PUT

6 **Birr/m²**

pcs/day

pcs/day

Birr/m²

OST (1:03)	
HOURLY RENTAL	**HOURLY COST**
3	12
	12

TOTAL (1:03)

HOURLY OUT PUT

6 **Birr/m²**

pcs/day

pcs/day

Birr/m²

OST (1:03)	
HOURLY RENTAL	**HOURLY COST**
3	12

	12

TOTAL (1:03)

HOURLY OUT PUT

6 **Birr/m²**

pcs/day

pcs/day

Birr/m²

OST (1:03)

HOURLY RENTAL	HOURLY COST
3.00	12
	12

TOTAL (1:03)

HOURLY OUT PUT

4 **Birr/m²**

pcs/day
pcs/day
Birr/m²

OST (1:03)	
HOURLY RENTAL	**HOURLY COST**
3.00	12
	12

TOTAL (1:03)

HOURLY OUT PUT

4 **Birr/m²**

pcs/day
pcs/day
Birr/m²

OST (1:03)	
HOURLY RENTAL	**HOURLY COST**
0.4	0.8

	0.8

TOTAL (1:03)

HOURLY OUT PUT

0.26666666667 **Birr/m²**

kg/day

kg/day

hr Cost
12.00
12.00

Birr/ml

hr Cost
12.00
0.00
0.00
12.00

Birr/ml

kg/day
kg/day

hourly Cost
60.00
25.00
1.60
86.60

Birr/kg

kg/day

kg/day

hr Cost
2.40
2.40

Birr/ml

kg/day
kg/day

hourly Cost
60.00
25.00

1.60
86.60

Birr/kg

kg/day
kg/day

hourly Cost
60.00
25.00
1.60

86.60

Birr/kg

hr Cost
12.00
12.00

Birr/ml

hr Cost
9.00
9.00

Birr/ml

hourly Cost
12.00

12.00

Birr/kg

Hourly Cost

1.20

Birr/m^2

Hourly Cost
12.00

Birr/m^2

Hourly Cost
0.80
0.80

Birr/m^2

Hourly Cost
12.00

12.00

Birr/m^2

Hourly Cost
12.00
12.00

Birr/m^2

hr Cost
6
0
0
0
0
0
0
0
0
6

Birr/m^2

hr Cost
6
0
0
0
0
0
0
0
0
6

Birr/m^2

hr Cost
6
0
0

0
0
0
0
0
0
6

Birr/m^3

hr Cost
6
0
0
0
0
0
0
0
0
6

Birr/m^2

hr Cost
9
0
0
0
0
0
0
0
0
9

Birr/m^2

hr Cost
6
0
0
0
0
0
0
0
0
6

Birr/m^3

hr Cost
6
0
0
0
0
0
0
0
6

Birr/ml

hr Cost
6
0
0
0

0
0
0
0
6

Birr/ml

Hourly Cost
0.80
0.80

Birr/m2

Hourly Cost
6.00
7

Birr/m2

hr Cost
6
0
0
0
0
0
0
0
0
6

Birr/m^2

hr Cost

9
0
0
0
0
0
0
0
0
9

Birr/m2

Hourly Cost
6.00
6.00

Birr/m2

Hourly Cost
9.00
9.00

1.13

Hourly Cost
9.00
9.00

1.13

Hourly Cost
6.00
6.00

0.75

Hourly Cost
0.80
-
-
-
-
6.00

0.75

Hourly Cost
6.00
6.00

0.75

Hourly Cost
6.00

6.00

0.75

Hourly Cost
6.00
6.00

0.75

Hourly Cost
6.00
6.00

0.75

Hourly Cost
6.00

6.00

0.75

Hourly Cost
6.00
-
-
-
-
6.00

0.75

Hourly Cost
6.00
6.00

0.75

Hourly Cost
6.00
-
-

6.00

0.75

Hourly Cost
6.00
6.00

0.75

Item No
1.01
1.02
1.03
1.04
1.05
1.06
2.01
2.02
2.03
2.04
3.01
3.02

1.01
1.05
1.06
2.01
5.01
6.01
6.02
6.03

6.04
6.20
6.22
6.23
6.24
6.25
6.26
6.27
6.28
7.01
8.03
8.04
9.01

12.01
12.02
12.03
12.04
12.05
12.06
12.07
12.08
12.09
12.10
12.11
12.12
12.13

Description
A. SUB-STRUCTURE
1.EXCAVATION & EARTH WORKS
Clear and remove top soil to an average depth of 200mm.
Bulk excavation in ordinary soil to reduce level to the specified depth on the drawing.(300mm depth)
Pit Excavate in ordinary soil to a depth not exceeding 1500mm from ground level.
Trench Excavate in ordinary soil to a depth of 950mm from reduced ground level.
Back Fill around foundation wall ,footing pad ,and footing columns and bulk excavation
Load and Cart away surplus excavated material to an appropriate tip.
TOTAL CARRIED TO SUMMARY .....
2.CONCRETE WORKS
50mm thick lean concrete quality C-5 with minimum cement content of 150kg/m³ of concrete :
a) Under footing
b) Under masonry wall foundation
C) under grade beam
Reinforced concrete quality C-25, 360 kg of cement /m³
a) In footing pad, In foundation column& In grade beam
Form work
a) To footings pad, To footing columns& To grade beams
Reinforcement bars
dia. 8mm deformed bar
dia. 10mm deformed bar
dia. 14mm deformed bar
dia.20mm deforme bar
TOTAL CARRIED TO SUMMARY .....
3. MASONRY WORKS
Foundation wall
Hard core
TOTAL CARRIED TO SUMMARY.....

TOTAL CARRIED TO SUMMARY FOR SUBSTRUCTURE…….
B. SUPER-STRUCTURE
1. CONCRETE WORKS
Reinforced concrete quality C-25, 360 kg of cement /m^3 filled in to formworks and vibrated around rod reinforcement
a) In elevation columns, In floor beam, InTop tie beams, in 150mm thick floor slab& trade & landing of stair
Provide, cut & fix in position sawn structural wood or steel formwork which eve is appropriate;
a) To elevation columns, To floor beam, To Top tie beams& To floor slab
Mild steel Reinforcement according to structural drawing. Price includes cutting, bending, placing in position and tying wires and concrete spacers and reinforcement bar chairs.
a) dia. 6mm plain bar
c) dia. 10mm deformed bar
e) dia. 14mm deformed bar
f) dia. 16mm deformed bar
TOTAL CARRIED TO SUMMARY……..
2. BLOCK WORK
Class C 200mm thick HCB wall which can satisfy the designed strength, bedded in cement mortar (1:3). Price shall include mortar bed
TOTAL CARRIED TO SUMMARY……..
5.METAL WORKS
Metal windows and doors
Doors
D1: size 118cm x 210cm
TOTAL CARRIED TO SUMMARY……..
6- STEEL STRUCTURE
Supply, fabricate and mount steel truss & stair case according to the structural drawing.
RHS truss
a) 30*30*3mm
Lattice purlins
a) 25*25*2.5mm
Bolts with nuts

a) dia 16mm J-bolt with length 400mm
b) dia 12mm I-bolt with length 100mm
c) dia 16mm J-bolt with length 110mm
verticals &horizontals
a) 25*25*4mm size=30mm
RHS post
a)40*40*3mm rhs post
Treads
a)219*40*40*3mm
Rails
a) 50*50*3mm hand rail
b) 40*40*3mm middle &bottom rail
Metal channels
a) 219*40*40*3mm HRS plats
Landing
a) 2*150*60*3 mm
Pillar
a) 130*130*3mm
Metal plates
a) 219*40*40*3mm
b) 2*150*60*3mm
Bolts with nuts
a) dia.16mm j-bolt length.=300mm
b) dia.16mm j-bolt length.=400mm
c) dia. 20 mmJ- bolt length =250mm
TOTAL CARRIED TO SUMMARY……..
7-Plastering
1st, 2nd and 3rd coat of cement plaster for vertical surface and sofit (1:3)
TOTAL CARRIED TO SUMMARY……..
8.FINISHING
150*150* 6mm thick white ceramic on toilets & waiting class
terazo floor finish
TOTAL CARRIED TO SUMMARY……..
9. painting
Apply coats of painting
a. First coat painting for internal and external wall
TOTAL CARRIED TO SUMMARY……..

12. Electrical installation
Wire
Conduit
Single switch
Double switch
Intermediate switch
Single socket
Double socket
Single florescent
Double florescent
Light points
Flash mounted light points fed through PVC insulated conductores of 3*2.5mm^2 inside PVC condutes at 16mm diameter including juncation boxes with covers
sockt out let points
Flash mounted light points fed through PVC insulated conductores of 3*2.5mm2 inside PVC condutes at 16mm diameter including juncation boxes with covers
Distribution board
Telecome points/ outlets
a) Telephone point fed through 2*(twested pair catacory 6 utp cable) inside PVC condutof 25mm diameter
b) Tele data out let 30cm AFFL
TOTAL CARRIED TO SUMMARY……..
summary for super structure
NET SUMMARY

Unit	QUANTITY	unit price	total price
			-
m²	348.43	22.58	7,867.44
m³	93.42	248.36	23,201.79
m³	171.52	**236.88**	40,629.07
m³	98.28	**370.85**	36,447.14
m³	551.22	43.95	24,226.30
m³	160.42	108.92	17,472.77
			149,844.50
			-
			-
m²	41.16	368.88	15,183.10
m²	21.45	368.88	7,912.48
m2	21.45	368.88	
			-
m³	37.65	1,870.97	70,437.81
			-
m²	3229.76	1,391.31	4,493,595.65
			-
kg	987.87	51.73	51,102.52
kg	4.36	47.27	206.10
kg	534.43	37.49	20,035.78
kg	1132.50	37.49	42,457.43
			4,700,930.85
			-
m³	61.43	1640.31	100,756.04
m³	38.61	166.07	6,412.56
			107,168.60

			4,957,943.95
			-
			-
			-
m^3	**93.38**	1,391.31	129,914.61
			-
m^2	**621.93**	266.40	165,680.82
			-
kg	**17.10**	68.87	1,177.68
kg	**4013.91**	47.27	189,737.53
kg	**599.31**	37.49	22,468.13
kg	**2169.81**	37.49	81,346.18
			590,324.95
			-
m^2	**401.54**	512.06	205,610.11
			205,610.11
			-
			-
			-
Pcs	**3.00**	2662.7	7,988.10
			7,988.10
			-
			-
			-
kg	**4,293.78**	102.55	440,327.11
			-
kg	**384.62**	62.37	23,988.81
			-

pcs	**8.00**	534.87	4,278.96
pcs	**8.00**	522.73	4,181.84
pcs	**8.00**	151.45	1,211.60
			-
pcs	**104.00**	62.37	6,486.48
			-
kg	**138.93**	41.65	5,786.43
			-
kg	**434.76**	132.23	57,488.31
			-
kg	**151.67**	49.04	7,437.90
kg	**338.66**	46.63	15,791.72
			-
kg	**213.12**	132.23	28,180.86
			-
kg	**103.36**	264.72	27,361.46
			-
kg	**466.44**	72.54	33,835.56
			-
pcs	**44.00**	207.20	9,116.80
pcs	**4.00**	282.90	1,131.60
			-
pcs	**8.00**	534.87	4,278.96
pcs	**8.00**	534.87	4,278.96
Pcs	**8.00**	534.87	4,278.96
			679,442.32
			-
m^2	**4,131.03**	112.00	462,675.54
			462,675.54
			-
m^2	**257.84**	309.85	79,891.08
m^2	**104.42**	179.19	18,710.12
			98,601.20
			-
			-
m^2	**1,721.82**	39.32	67,701.98
			67,701.98

			-
ml	**372.98**	226.13	84,342.65
ml	**354.33**	104.63	37,073.55
pcs	**9.00**	205.37	1,848.33
pcs	**32.00**	250.97	8,031.04
pcs	**2.00**	205.37	410.74
pcs	**34.00**	326.03	11,085.02
pcs	**16.00**	282.34	4,517.42
pcs	**46.00**	235.74	10,844.04
pcs	**89.00**	397.74	35,398.86
			-
no	**137.00**	213.64	29,268.68
			-
no	**58.00**	306.62	17,783.96
no	**3.00**	3,851.49	11,554.47
			-
no	**17.00**	450.59	7,660.03
no	**17.00**	450.59	7,660.03
			200,888.62
			2,313,232.82
			7,271,176.78

SUMMARY SHEET

Item No	Description	Unit
	A. SUB-STRUCTURE	
	1.Excavation & Earth works	Birr
	2.Concrete works	Birr
	3. Masonry works	Birr
	TOTAL AMOUNT FOR SUB STRUCTURE	Birr
	B. SUPER-STRUCTURE	
	1. Concrete works	Birr
	2. Block works	Birr
	3. Roofings	Birr
	4. Carpentary& joinery	Birr
	5.Metal works	Birr
	6- Steel structure	Birr
	7-Plastering	Birr
	8.Finishing	Birr
	9. Painting	Birr
	10. Glazing	Birr
	11. Sanitary Installation	Birr
	12. Electrical installation	Birr
	TOTAL AMOUNT FOR SUPER STRUCTURE	Birr
	NET AMOUNT	Birr

Amount
152395.55
401033.45
142176.62
695605.62
2889879.91
459655.3
118,717.30
140,848.62
7,988.10
679,442.32
737,129.84
171,129.84
161,557.18
51,919.15
72,693.78
200,888.62
5691849.96
6387455.58

GRAND SUMMARY SHEET

Item Nc	Description	Unit
	A. SUB-STRUCTURE	
	TOTAL AMOUNT FOR SUB ST	BIRR
	B. SUPER-STRUCTURE	
	TOTAL AMOUNT FOR SUPPEI	BIRR
	NET AMOUNT	BIRR

Amount
695,605.63
5,691,987.83
6387593.46

N0	DESCRIPTIC	UNIT	Qty	COST		AVERAGE
				MAX	MIN	
1	DAILY LABC	p/day	1	130	100	115
2	CARPENTEF	p/day	1	300	250	275
3	ELECTRICIA	p/day	1	300	250	275
4	FORMAN	p/day	1	240	210	225
5	MASON	p/day	1	300	250	275
6	PLUMBER	p/day	1	240	205	222.5
7	ASS.PLUMB	p/day	1	95	85	90
8	PLASTERER	p/day	1	350	250	300
9	BARBENDEI	p/day	1	300	250	275
10	ASS.MASON	p/day	1	130	100	115
11	OPERATOR	p/day	1	200	150	175
12	ASS.CARPE	p/day	1	130	100	115
13	DRESSER	p/day	1	250	200	225
14	PAVER	p/day	1	250	210	230
15	ASS.ELECTF	p/day	1	120	100	110
16	ELEC.FORM	p/day	1	210	200	205
17	CHISLER	p/day	1	300	250	275
18	GLASER	p/day	1	250	200	225
19	Tiler	p/day	1	300	230	265
20	painter	p/day	1	250	200	225
21	WELDER	p/day	1	250	220	235

No	AL MATERE ESCRIPTIO	UNIT	MAX	Min	.w/ out vat	AVER.with Transport
1	sand	M3	410.00	380.00	343.48	348.11
2	WATER	M3	140.00	130.00	117.39	122.02
3	Gravel	M3	410.00	390.00	347.83	352.46
4	basalt ston	M3	240.00	200.00	191.30	195.93
5	stone	M3	240.00	190.00	186.96	191.59
6	cement sa	m3			-	
7	(cement) p	Quintal	165.00	165.00	143.48	144.33
8	(cement) p	Quintal	190.00	190.00	165.22	166.07
9	(cement) O	Quintal	265.00	265.00	230.43	231.28
10	cement pas	m3			-	1.50
11	FOR Ribbed	No	-	-	-	-
12	HCB WALL	No	17.00	16.00	14.35	18.35
13	HCB WALL	No	12.00	11.00	10.00	14.00
14	HCB WALL	No	10.50	10.00	8.91	12.91
15	HCB WALL	No	13.50	13.00	11.52	13.52
16	HCB WALL	No	9.50	9.00	8.04	10.04
17	HCB WALL	No	8.50	8.00	7.17	9.17
18	HCB WALL	No	15.50	15.00	13.26	15.76
19	HCB WALL	No	11.00	10.00	9.13	11.63
20	HCB WALL	No	9.50	9.00	8.04	10.54
21	BRICK	No	5.30	5.30	4.61	6.11
22	SELECTED I	M3	150.00	80.00	100.00	104.63
23	SELECTED I	M3	-			4.63
	TRUSS EUCLA					-
25	Dia 10-12 (	Ml	30.00	30.00	26.09	26.09
26	Dia 8-10 c	Ml	20.00	20.00	17.39	17.39
27	Dia 6-8	Ml	17.50	17.50	15.22	15.22
28	25*400*2.5cm timber for form work ,facia bord,& hand rail	M2	325.00	310.00	276.09	276.10
	FLOOR finising				-	-
29	2 cm thick (	M2	130.00	95.31	97.96	97.97
30	2.5 cm thic	M2	240.00	234.23	206.19	206.65
31	2.5 cm thic	M2	190.00	173.22	157.92	158.38
32	2.5 cm thic	M2	170.00	160.20	143.57	144.03
33	2 cm thick	M2	173.33	170.00	149.27	149.74

34	2.5 cm thic	Ml	35.00	33.00	29.57	29.80
35	2.5 cm thic	Ml	28.00	25.00	23.04	23.27
36	2.5 cm thic	Ml	25.00	23.00	20.87	21.10
37	2 mm thick	M2	220.00	220.00	191.30	191.32
38	2 mm thick	Ml	25.00	25.00	21.74	21.75
39	3 cm thick (	M2	1,728.45	1,613.45	1,453.00	1,453.46
40	3cm thick r	M2	1,559.40	723.35	992.50	992.96
41	2cm thick r	M2	1,382.30	616.40	869.00	869.46
42	3cm thick L	M2	616.40	512.90	491.00	491.46
43	2 cm thick	Ml	98.55	98.55	85.70	85.93
44	2 cm thick	Ml	21.00	20.00	17.83	17.84
45	8 mm thick	M2	300.00	270.00	247.83	248.06
46	6 mm thick	M2	270.00	210.00	208.70	208.93
47	5 mm thick	M2	180.00	165.00	150.00	150.23
48	5 mm tick h	Ml	32.00	25.00	24.78	24.90
49	2.5 cm thick terazzo tile TREAD,Riser &window Sill class 'B'	M2	541.61	535.00	468.09	468.17
50	3cm thick r	M2	1,405.30	1,302.95	1,177.50	1,177.58
51	2cm thick r	M2	1,198.30	963.70	940.00	940.08
52	marble chip	M3	-	-	-	0.23
53	board FOR	Ml	-	-	-	0.02
54	powder FOI	kg	-	-	-	0.02
55	gravelFOR	kg	-	-	-	0.02
56	abbrasive v	No	-	-	-	0.02

coast materials						
with transp	direct cost	transprt	k/g	total co/ku	total k/m	transport
in MEKELE	in MEKELE	cost/kg		fromMEKE	fromMEKE	coast/km
					5.00	
348.11	343.48	4.63	1.00	4.63	1.00	4.63
122.02	117.39	4.63	1.00	4.63	1.00	4.63
352.46	347.83	4.63	1.00	4.63	1.00	4.63
195.93	191.30	4.63	1.00	4.63	1.00	4.63
191.59	186.96	4.63	1.00	4.63	1.00	4.63
	-				5.00	0.37
144.33	143.48	0.85	1.00	0.85	5.00	0.17
166.07	165.22	0.85	1.00	0.85	5.00	0.17
231.28	117.00	0.85	1.00	0.85	5.00	0.17
1.50	-	1.50	1.00	1.50	5.00	0.30
-	-	0.04	100.00	4.00	1.00	4.00
18.35	14.35	0.04	100.00	4.00	1.00	4.00
14.00	10.00	0.04	100.00	4.00	1.00	4.00
12.91	8.91	0.04	100.00	4.00	1.00	4.00
13.52	11.52	0.02	100.00	2.00	1.00	2.00
10.04	8.04	0.02	100.00	2.00	1.00	2.00
9.17	7.17	0.02	100.00	2.00	1.00	2.00
15.76	13.26	0.03	100.00	2.50	1.00	2.50
11.63	9.13	0.03	100.00	2.50	1.00	2.50
10.54	8.04	0.03	100.00	2.50	1.00	2.50
6.11	4.61	0.02	100.00	1.50	1.00	1.50
104.63	100.00	0.05	100.00	4.63	1.00	4.63
4.63	-	4.63	1.00	4.63	1.00	4.63
	-					
26.09	26.09	0.00	100.00	0.25	1.00	0.25
17.39	17.39	0.00	100.00	0.24	1.00	0.24
15.22	15.22	0.00	100.00	0.23	1.00	0.23
276.10	276.09	0.01	100.00	1.35	5.00	0.27
	-					
97.97	97.96	0.01	100.00	1.35	5.00	0.27
206.65	206.19	0.46	100.00	46.25	5.00	9.25
158.38	157.92	0.46	100.00	46.25	5.00	9.25
144.03	143.57	0.46	100.00	46.25	5.00	9.25
149.74	149.27	0.46	100.00	46.25	5.00	9.25

29.80	29.57	0.23	100.00	23.15	5.00	4.63
23.27	23.04	0.23	100.00	23.15	5.00	4.63
21.10	20.87	0.23	100.00	23.15	5.00	4.63
191.32	191.30	0.02	100.00	1.85	5.00	0.37
21.75	21.74	0.01	100.00	0.95	5.00	0.19
1,453.46	1,453.00	0.46	100.00	46.25	5.00	9.25
992.96	992.50	0.46	100.00	46.25	5.00	9.25
869.46	869.00	0.46	100.00	46.25	5.00	9.25
491.46	491.00	0.46	100.00	46.25	5.00	9.25
85.93	85.70	0.23	100.00	23.15	5.00	4.63
17.84	17.83	0.01	100.00	0.95	5.00	0.19
248.06	247.83	0.23	100.00	23.15	5.00	4.63
208.93	208.70	0.23	100.00	23.15	5.00	4.63
150.23	150.00	0.23	100.00	23.15	5.00	4.63
24.90	24.78	0.12	100.00	11.55	5.00	2.31
468.17	468.09	0.08	100.00	7.50	5.00	1.50
1,177.58	1,177.50	0.08	100.00	7.55	5.00	1.51
940.08	940.00	0.08	100.00	7.55	5.00	1.51
0.23	-	0.23	100.00	22.60	5.00	4.52
0.02	-	0.02	100.00	1.85	5.00	0.37
0.02	-	0.02	100.00	1.85	5.00	0.37
0.02	-	0.02	100.00	1.85	5.00	0.37
0.02	-	0.02	100.00	1.85	5.00	0.37

ITEM	description	No	Rental /H	Rental /H
1	hand drill	1	**25.00**	24.00
2	multimeter	1	**22.00**	20.00
3	tools	1	**3.00**	3.00
4	mixer	1	**191.30**	191.30
5	vibrator	1	**66.84**	66.84
7	grinder	1	**20.00**	18.00
8	Marble polish	1	**-**	-
9	hand compact	1	**23.00**	22.00
10	**dam truck**	1	**856.60**	856.60

average
24.50
21.00
3.00
191.30
66.84
19.00
-
22.50
856.60

No	STRIAL MATERIALS DESCRIPTION	UNIT	MAX
	reinforcement bar		
1	Diam. 6mm plain bar.	kg	**42.00**
2	Diam. 8mm	kg	**34.75**
3	Diam. 10mm	kg	**31.25**
4	Diam. 12mm, 14mm, 16mm, 20mm	kg	**29.25**
5	Diam. 14mm	kg	**29.25**
6	Diam. 16mm	kg	**29.25**
7	Diam. 18mm	kg	**-**
8	Diam. 20 mm	kg	**29.25**
9	Diam. 22mm	kg	**-**
10	Diam. 24mm	kg	**29.75**
11	Diam. 30mm	kg	**34.25**
12	Diam. 32mm	kg	**33.25**
	CIS& other material		
12	**G-28 CIS (di**	M2	**250.00**
13	**G-30 CIS (div**	M2	**204.86**
14	**G-32 CIS (div**	M2	**173.60**
15	**G-35 CIS (di**	M2	**111.11**
16	**G-28 sheet metal roofing ridge cover, gutter,down pipe & copping**	M2	**220.00**
17	**G-30 sheet metal roofing ridge cover, gutter,down pipe & copping**	M2	**-**
18	**Ega-300(4mm**	M2	**228.48**
19	**Ega-400(4mm**	M2	**228.48**
20	**Ega-500(4mm**	M2	**228.48**
21	**decore shekla roof with all accsesary**	M2	**480.00**
22	**EVE TO DECRA**	ml	**175.00**

23	RIGE TO DECRA	ml	312.50
24	BLACK wire	kg	45.00
25	BONDA	kg	45.00
26	ribed sheet	M2	130.00
	NAIL & other materials		
27	dome (roofin	kg	60.00
28	6-12cm nail	kg	45.00
29	3&4cm nail	kg	60.00
30	J-bolt For roofin	NO	3.50
31	Wesher	NO	1.50
32	80*80*3 mm S	kg	47.15
33	60*60*3 mm S	kg	44.96
34	30*30*2.5 mm	kg	55.83
35	25*25*2.5 mm	kg	58.94
36	40*40*1.5 mm	kg	47.08
37	20*20*1.5 mm	kg	56.22
37	50*50*3 mm S	kg	47.06
37	30*30*3 mm S	kg	55.08
37	25*25*1.5 mm	kg	50.31
38	120*80*3.5 m	kg	42.95
39	80*40*3 mm R	kg	33.72
40	40*20*2 mm R	kg	49.60
41	30*20*1.5 mm	kg	50.31
42	diamte 50 mm	kg	30.60
43	diamte 76 mm	kg	38.81
44	diamte 102 m	kg	42.26
45	size 60*60*4	NO	26.00
46	ELECTROD	NO	2.20
47	CUTTING DISK	NO	45.00
48	M = 12 mm nut	NO	8.00
49	U chnal 6 cm shape metal Top and bottom rail For slaiding door	ML	375.00
50	11/4(1.25) mm	M2	325.00
51	38 mm T- sha	ML	83.33
52	T- shape meta	ML	30.00
53	kochneta For	NO	85.00
54	30*3 mm flat i	ML	60.00
55	50*3 mm flat i	ML	100.00

56	pulley Ø 50 m	NO	60.00
57	bolts 1/2	NO	20.00
	PAINTING		
58	putty	kg	20.00
59	GYPSUM	kg	4.00
60	GLUE or cola	kg	80.00
61	VARNISH	LT	80.00
62	AQUARAGE	LT	25.00
63	anti-rust	LT	80.00
64	SYNTHETIC p	LT	88.50
65	PLASTIC pain	LT	48.87
66	Qartize painti	kg	33.12
67	Lime	kg	6.00
68	Fiber (Qacha)	kg	50.00
69	suttco	lit	110.00
	Wood & other material		
70	Aromstrong ci	M2	450.00
71	8mm thick ch	M2	86.80
72	2*4 cm timber	ML	25.00
73	4*5 cm timber	ML	26.20
74	5*7 cm wood /	ML	47.50
75	*Supply & fix flush type **wooden door** of 40mm thick semi - solid both sides covered with 3mm kerarro play wood or Equivalent ply wood, price includes frame, hinges cylinderical lock , handle & other accessories with approved quality.*	M2	1,230.16
	diferent materials		
78	Diamend shap	M2	140.00
79	40x40*2.5 mm	ML	66.66
80	Bare bad wire	ML	4.50
	made different size Gabyon		
81	3x1x1	M3	1,310.00
82	2x1x1m	M3	952.00

83	2x1x0.5m	M3	720.00
84	1x1x1m	M3	540.00
85	gabion fence	M2	55.00
	water proofing		
86	BITUMEN ASP	kg	-
87	HEATING GAS	kg	-
88	asphalt paper	ML	-
	door and window		
89	*supply and fix* ***metal doors*** *shall be fabricated from locally manufactured 3.8 *1.25 mm thicknes LTZ tubular steel profile,cover 1.25 mm thick flat iron sheet metal including price hinges, cylindrical locks ,one coats of antrust & two coats oil paint.,with all its accessories(material quality approved by the engineer)*	M2	833.33

90	*supply and fix* ***metal doors*** *shall be fabricated from locally manufactured 3.8 *1.25 mm thicknes LTZ tubular steel profile,cover 1 mm thick flat iron sheet.metal including price hinges, cylindrical locks ,one coats of antrust & two coats oil paint.,with all its accessories(material quality approved by the engineer)*	**M2**	**793.65**

		supply and fix ***metal doors*** *shall be fabricated from locally manufactured 3.8 *1.25 mm thicknes LTZ tubular steel profile,left for glazing .including price c/c 15 cm vertical raws 20*20*1 mm SHS tube grill , 20*10*1 mm RHS tube for glazing frame, hinges, cylindrical locks ,one coats of antrust & two coats oil paint.,with all its accessories(material quality approved by the engineer)*		
	91		**M2**	**730.00**

92	*supply and fix* ***metal doors*** *shall be fabricated from locally manufactured 3.8 *1.25 mm thicknes LTZ tubular steel profile,partaly cover 1 mm thick flat iron sheet metal and partaly left for glazing .including price c/c 15 cm vertical raws 20*20*1 mm SHS tube grill hinges, 20*10*1mm RHS tube for glazing frame, cylindrical locks ,one coats of antrust & two coats oil paint.,with all its accessories(material quality approved by the engineer)*	M2	**750.00**

		*supply and fix metal doors shall be fabricated from locally manufactured 1.25 mm thick sheet metal profile,(ዕዋፍ ላሜራ) left for glazing .including price c/c 15 cm vertical rows 20*20*1 mm SHS tube grill , 20*10*1mm RHS tube for glazing frame ,hinges, cylindrical locks ,one coats of antrust & two coats oil paint.,with all its accessories(material quality approved by the engineer)*		
	93		**M2**	**1,100.00**

94	*supply and fix **metal doors** shall be fabricated from locally manufactured 1.25 mm thick sheet metal profile(ዕዋፍ ላሜራ),left for glazing .including price ,20*10*1 mm RHS tube for glazing frame, cylindrical locks ,one coats of antrust & two coats oil paint.,with all its accessories(material quality approved by the engineer)*	M2	1,000.00
95	*supply and fix **metal doors** shall be fabricated from locally manufactured daimetr 50*2mm thickness CHS tube profile,cover 1.25 mm thick flat iron sheet.metal including price hinges, locks ,one coats of antrust & two coats oil paint.,with all its accessories(material quality approved by the engineer)*	M2	1,200.00

96	*supply and fix* ***metal window*** *shall be fabricated from locally manufactured 3.8 *1.25 mm thicknes LTZ tubular steel profile,left for glazing .including price c/c 15 cm vertical rows 20*20*1 mm SHS tube grill ,20*10*1 mm RHS tube for glazing frame ,hinges, handle ,one coats of antrust & two coats oil paint.,with all its accessories(material quality approved by the engineer)*	M2	710.00

97	*supply and fix* ***metal window*** *shall be fabricated from locally manufactured 3.8 *1.25 mm thicknes LTZ tubular steel profile,left for glazing .including price , 20*10*1 mm RHS tube for glazing frame, hinges, handle ,one coats of antrust & two coats oil paint.,with all its accessories(material quality approved by the engineer)*	**M2**	**700.00**

98	*supply and fix* ***metal window*** *shall be fabricated from locally manufactured 1.25 mm thick sheet metal profile(ፅፋፍ ላሜራ),left for glazing .including price c/c 15 cm vertical rows 20*20*1 mm SHS tube grill , 20*10*1 mm RHS tube for glazig frame ,hinges, handle ,one coats of antrust & two coats oil paint.,with all its accessories(material quality approved by the engineer)*	M2	1,050.00

99	*supply and fix* ***metal window*** *shall be fabricated from locally manufactured 1.25 mm thick sheet metal profile(ዕቅፉ ላሜራ),left for glazing .including price , 20*10*1 mm RHS tube for glazig frame ,hinges, locks ,one coats of antrust & two coats oil paint.,with all its accessories(material quality approved by the engineer)*	**M2**	**950.00**

100	*supply and fix* ***metal window*** *shall be fabricated from locally manufactured 3.8 *1.25 mm thicknes LTZ tubular steel profile,cover 1 mm thick flat or ribbed iron sheet.includin g price hinges, handel ,one coats of antrust & two coats oil paint.,with all its accessories(m aterial quality approved by the engineer)*	M2	530.00
101	*supply and fix* ***Aluminium doors*** *thicknes* ***1.6*** *mm profile,left for glazing .includ ing , hinges, cylindrical locks with all its accessories*	M2	2,300.00
102	*supply and fix* ***Aluminium window*** *thicknes* ***1.6*** *mm profile,left for glazing .includ ing , hinges, handle with all its accessories*	M2	2,150.00
	GLASS		
103	**3mm thick Cle**	M2	240.00
104	**4mm thick Cle**	M2	270.00

105	**5mm thick cl**	**M2**	**380.00**
106	**4mm thick fo**	**M2**	**330.00**
107	**5mm thick sol**	**M2**	**400.00**
108	*height of 6.5m and connection door at 40cm above NGL price Inculdig 40*40*80 cm pit excavation .C-20 concerte ,diameter 14 mm deforemd bar both side c/c 15 and 2 coats of oil paintigs, that consists of 1 PCS of flag holder 4 pcs uo to 60 cm length diamter bar ''J''bolt with nuts 2 PCS 35cm*35cm *8mmthick base metal plates anchoring rodes ome piecies(80cm) of branch arms the thickness of the pole in 3 mm sheet and it is circularl shape with all its neccessories accessories . (material quality approved by the engineer*	**NO**	**10,121.00**
	Achorade bolts & other material		
109	*supply & fix up to 120 mm long Angle iron 60*60*4mm purlin to trust connection price inculding 3 coats oil paint*	**NO**	**7.80**
110	*supply & fix Diameter 10 mm bolts with nuts truss connection length 100 mm .*	**NO**	**10.00**

111	*supply & fix Diameter 16 mm Anchorage bolts with nuts length up to 500 mm .*	NO	36.35
112	*supply & fix Diameter 10 mm bolts with nuts .purline to angl iron conction length up to 120 mm*	NO	14.25
113	*supply & fix Use angle iron size 40*40*2.5 mm length up to 120mm*	NO	5.20
114	*supply & fix Diameter 20 mm Anchorage bolts with nuts length up to 600mm .*	NO	90.50
115	*supply & fix Diameter 12 mm Anchorage bolts with nuts length up to 100mm .*	NO	22.20
	metal plate & other material		
116	**250x150x5m**	NO	75.00
117	**250x250x8m**	NO	203.12
118	**200x100x5mn**	NO	40.00
119	**200x300x5m**	NO	120.00
120	**300*300*8 mr**	NO	292.50
121	**160x80x6mm**	NO	28.80
122	**250*250*6 mr**	NO	140.62
123	**200*200*6 mr**	NO	90.00
124	**150*150*6 mr**	NO	50.62
125	**glaSS fiber**	M2	-
126	**asphalt bitum**	M2	-
127	**1 mm thick m**	M2	400.00
128	**membrance w**	m2	320.00
129	**prime for men**	LT	-

130	clinderical loc	NO	350.00
131	hings	NO	25.00

			coast matetials
		AVER.with tra	with transport
MIN	AVER. W/out vat	sport	in MEKELE
40.00	35.65	35.67	35.67
34.75	30.22	30.23	30.23
31.25	27.17	27.19	27.19
29.25	25.43	25.45	25.45
29.25	25.43	25.45	25.45
29.25	25.43	25.45	25.45
-	0.00	0.01	0.01
29.25	25.43	25.45	25.45
-	0.00	0.01	0.01
29.75	25.87	25.88	25.88
34.25	29.78	29.80	29.80
33.25	28.91	28.93	28.93
243.06	214.37	214.47	214.47
204.86	178.14	178.22	178.22
170.14	149.45	149.52	149.52
104.17	93.60	93.65	93.65
200.00	182.61	182.63	182.63
-	0.00	0.02	0.02
228.75	198.80	198.89	198.89
228.75	198.80	198.89	198.89
228.75	198.80	198.89	198.89
450.00	404.35	404.35	404.35
174.00	151.74	151.74	151.74

310.00	**270.65**	**270.65**	270.65
40.00	**36.96**	**36.97**	36.97
40.00	**36.96**	**36.97**	36.97
120.00	**108.70**	**108.71**	108.71
50.00	**47.83**	**47.84**	47.84
42.00	**37.83**	**37.84**	37.84
55.00	**50.00**	**50.01**	50.01
3.00	**2.83**	**2.83**	2.83
1.00	**1.09**	**1.09**	1.09
47.15	**41.00**	**41.01**	41.01
44.96	**39.10**	**39.11**	39.11
55.83	**48.55**	**48.56**	48.56
58.94	**51.25**	**51.27**	51.27
47.08	**40.94**	**40.95**	40.95
56.22	**48.89**	**48.90**	48.90
47.06	**40.92**	**40.93**	40.93
55.08	**47.90**	**47.91**	47.91
50.31	**43.75**	**43.76**	43.76
42.63	**37.21**	**37.22**	37.22
33.72	**29.32**	**29.33**	29.33
49.60	**43.13**	**43.14**	43.14
50.31	**43.75**	**43.76**	43.76
28.25	**25.59**	**25.60**	25.60
36.53	**32.76**	**32.77**	32.77
40.57	**36.01**	**36.03**	36.03
26.00	**22.61**	**22.61**	22.61
1.50	**1.61**	**1.61**	1.61
25.00	**30.43**	**30.44**	30.44
7.20	**6.61**	**6.61**	6.61
375.00	**326.09**	**326.09**	326.09
315.00	**278.26**	**278.26**	278.26
83.33	**72.46**	**72.46**	72.46
28.00	**25.22**	**25.22**	25.22
75.00	**69.57**	**69.57**	69.57
60.00	**52.17**	**52.17**	52.17
100.00	**86.96**	**86.96**	86.96

58.00	**51.30**	**51.30**	51.30
19.20	**17.04**	**17.04**	17.04
15.00	**15.22**	**15.23**	15.23
3.20	**3.13**	**3.14**	3.14
61.24	**61.41**	**61.42**	61.42
70.54	**65.45**	**65.47**	65.47
25.00	**21.74**	**21.75**	21.75
65.79	**63.39**	**63.39**	63.39
87.50	**76.52**	**76.53**	76.53
42.86	**39.88**	**39.90**	39.90
31.15	**27.94**	**27.94**	27.94
5.00	**4.78**	**6.08**	6.08
45.00	**41.30**	**42.60**	42.60
90.00	**86.96**	**86.97**	86.97
	0.00		
420.00	**378.26**	**378.32**	378.32
79.86	**72.46**	**72.52**	72.52
21.25	**20.11**	**20.12**	20.12
25.00	**22.26**	**22.27**	22.27
45.00	**40.22**	**40.23**	40.23
1,150.79	**1035.20**	**1035.40**	1035.40
125.00	**115.22**	**115.29**	115.29
58.33	**54.34**	**54.40**	54.40
4.20	**3.78**	**3.80**	3.80
1,310.00	**1139.13**	**1139.32**	1139.32
952.00	**827.83**	**827.99**	827.99

720.00	**626.09**	**626.23**	626.23
540.00	**469.57**	**469.69**	469.69
51.00	**46.09**	**46.16**	46.16
	0.00		
-	**0.00**	**0.02**	0.02
-	**0.00**	**0.02**	0.02
-	**0.00**	**0.00**	0.00
793.65	**707.38**	**707.50**	707.50

753.96	**672.87**	**672.99**	672.99

715.00	**628.26**	**628.37**	628.37

725.00	**641.30**	**641.40**	641.40

1,000.00	**913.04**	**913.17**	913.17

900.00	**826.09**	**826.20**	826.20
1,100.00	**1000.00**	**1000.15**	1000.15

690.00	**608.70**	**608.80**	608.80

680.00	**600.00**	**600.10**	600.10

1,000.00	**891.30**	**891.40**	891.40

900.00	**804.35**	**804.45**	804.45

520.00	**456.52**	**456.62**	456.62
2,000.00	**1869.57**	**1869.75**	1869.75
1,900.00	**1760.87**	**1761.05**	1761.05
240.00	**208.70**	**209.00**	209.00
270.00	**234.78**	**235.18**	235.18

380.00	**330.43**	**330.88**	330.88
330.00	**286.96**	**287.36**	287.36
340.00	**321.74**	**322.24**	322.24
8,600.00	**8139.57**	**8144.57**	8144.57
7.60	**6.70**	**6.70**	6.70
10.00	**8.70**	**8.70**	8.70

36.35	**31.61**	**31.61**	31.61
14.25	**12.39**	**12.39**	12.39
4.50	**4.22**	**4.22**	4.22
90.50	**78.70**	**78.70**	78.70
22.20	**19.30**	**19.30**	19.30
75.00	**65.22**	**65.22**	65.22
203.12	**176.63**	**176.63**	176.63
40.00	**34.78**	**34.78**	34.78
120.00	**104.35**	**104.35**	104.35
292.50	**254.35**	**254.35**	254.35
28.80	**25.04**	**25.04**	25.04
140.62	**122.28**	**122.28**	122.28
90.00	**78.26**	**78.26**	78.26
50.62	**44.02**	**44.02**	44.02
-	**0.00**	**0.00**	0.00
-	**0.00**	**0.01**	0.01
400.00	**347.83**	**347.83**	347.83
300.00	**269.57**	**269.57**	269.57
-	**0.00**	**0.00**	0.00

250.00	**260.87**	**260.89**	260.89
20.00	**19.57**	**19.58**	19.58

direct cost in MEKELE	transprt cost/kg	k/g	total co/kuntal fromMEKELE	total k/m fromMEKELE
35.65	0.01	100.00	1.30	5.00
30.22	0.01	100.00	1.30	5.00
27.17	0.01	100.00	1.30	5.00
25.43	0.01	100.00	1.30	5.00
25.43	0.01	100.00	1.30	5.00
25.43	0.01	100.00	1.30	5.00
0.00	0.01	100.00	1.30	5.00
25.43	0.01	100.00	1.30	5.00
0.00	0.01	100.00	1.30	5.00
25.87	0.01	100.00	1.30	5.00
29.78	0.01	100.00	1.30	5.00
28.91	0.01	100.00	1.30	5.00
0.00				
214.37	0.10	100.00	9.55	5.00
178.14	0.08	100.00	8.10	5.00
149.45	0.07	100.00	6.60	5.00
93.60	0.05	100.00	5.15	5.00
182.61	0.02	100.00	1.85	5.00
0.00	0.02	100.00	1.85	5.00
198.80	0.10	100.00	9.55	5.00
198.80	0.10	100.00	9.55	5.00
198.80	0.10	100.00	9.55	5.00
404.35	0.00	100.00	0.03	5.00
151.74	0.00	100.00	0.03	5.00

270.65	0.00	100.00	0.03	**5.00**
36.96	0.01	100.00	1.30	**5.00**
36.96	0.01	100.00	1.30	**5.00**
108.70	0.02	100.00	1.85	**5.00**
47.83	0.01	100.00	1.30	**5.00**
37.83	0.01	100.00	1.30	**5.00**
50.00	0.01	100.00	1.30	**5.00**
2.83	0.00	100.00	0.03	**5.00**
1.09	0.00	100.00	0.03	**5.00**
41.00	0.01	100.00	1.30	**5.00**
39.10	0.01	100.00	1.30	**5.00**
48.55	0.01	100.00	1.30	**5.00**
51.25	0.01	100.00	1.30	**5.00**
40.94	0.01	100.00	1.30	**5.00**
48.89	0.01	100.00	1.30	**5.00**
40.92	0.01	100.00	1.30	**5.00**
47.90	0.01	100.00	1.30	**5.00**
43.75	0.01	100.00	1.30	**5.00**
37.21	0.01	100.00	1.30	**5.00**
29.32	0.01	100.00	1.30	**5.00**
43.13	0.01	100.00	1.30	**5.00**
43.75	0.01	100.00	1.30	**5.00**
25.59	0.01	100.00	1.30	**5.00**
32.76	0.01	100.00	1.30	**5.00**
36.01	0.01	100.00	1.30	**5.00**
22.61	0.00	100.00	0.03	**5.00**
1.61	0.00	100.00	0.03	**5.00**
30.43	0.00	100.00	0.03	**5.00**
6.61	0.00	100.00	0.03	**5.00**
326.09	0.00	100.00	0.03	**5.00**
278.26	0.00	100.00	0.03	**5.00**
72.46	0.00	100.00	0.03	**5.00**
25.22	0.00	100.00	0.03	**5.00**
69.57	0.00	100.00	0.03	**5.00**
52.17	0.00	100.00	0.03	**5.00**
86.96	0.00	100.00	0.03	**5.00**

51.30	0.00	100.00	0.03	**5.00**
17.04	0.00	100.00	0.03	**5.00**
15.22	0.01	100.00	1.30	**5.00**
3.13	0.01	100.00	1.30	**5.00**
61.41	0.01	100.00	1.30	**5.00**
65.45	0.01	100.00	1.30	**5.00**
21.74	0.01	100.00	1.30	**5.00**
63.39	0.00	100.00	0.03	**5.00**
76.52	0.01	100.00	1.30	**5.00**
39.88	0.01	100.00	1.30	**5.00**
27.94	0.00	100.00	0.03	**5.00**
4.78	1.30	**1.00**	1.30	**5.00**
41.30	1.30	**100.00**	1.30	**5.00**
86.96	0.01	100.00	1.30	**5.00**
0.00				
378.26	0.06	100.00	5.55	**5.00**
72.46	0.06	100.00	5.55	**5.00**
20.11	0.01	100.00	1.30	**5.00**
22.26	0.01	100.00	1.30	**5.00**
40.22	0.02	100.00	1.50	**5.00**
1035.20	0.20	100.00	20.00	**5.00**
115.22	0.08	100.00	7.50	**5.00**
54.34	0.06	100.00	5.55	**5.00**
3.78	0.02	100.00	1.85	**5.00**
1139.13	0.19	100.00	18.50	**5.00**
827.83	0.16	100.00	16.00	**5.00**

626.09	0.14	100.00	14.00	**5.00**
469.57	0.13	100.00	12.50	**5.00**
46.09	0.08	100.00	7.50	**5.00**
0.00				
0.00	0.02	100.00	1.85	**5.00**
0.00	0.02	100.00	1.85	**5.00**
0.00	0.00	100.00	0.03	**5.00**
707.38	0.12	100.00	11.50	**5.00**

672.87	0.12	100.00	11.50	**5.00**

628.26	0.11	100.00	10.50	**5.00**

641.30	0.10	100.00	10.00	**5.00**

913.04	0.13	100.00	12.50	**5.00**

826.09	0.11	100.00	11.25	**5.00**
1000.00	0.15	100.00	15.00	**5.00**

608.70	0.10	100.00	10.00	**5.00**

600.00	0.10	100.00	10.00	**5.00**

891.30	0.10	100.00	10.00	**5.00**

804.35	0.10	100.00	10.00	**5.00**

456.52	0.10	100.00	10.00	**5.00**
1869.57	0.19	100.00	18.50	**5.00**
1760.87	0.19	100.00	18.50	**5.00**
208.70	0.30	100.00	30.00	**5.00**
234.78	0.40	100.00	40.00	**5.00**

330.43	0.45	100.00	45.00	**5.00**
286.96	0.40	100.00	40.00	**5.00**
321.74	0.50	100.00	50.00	**5.00**
8139.57	5.00	100.00	500.00	**5.00**
6.70	0.00	100.00	0.03	**5.00**
8.70	0.00	100.00	0.03	**5.00**

31.61	0.00	100.00	0.02	**5.00**
12.39	0.00	100.00	0.02	**5.00**
4.22	0.00	100.00	0.03	**5.00**
78.70	0.00	100.00	0.03	**5.00**
19.30	0.00	100.00	0.03	**5.00**
65.22	0.00	100.00	0.03	**5.00**
176.63	0.00	100.00	0.03	**5.00**
34.78	0.00	100.00	0.03	**5.00**
104.35	0.00	100.00	0.03	**5.00**
254.35	0.00	100.00	0.03	**5.00**
25.04	0.00	100.00	0.03	**5.00**
122.28	0.00	100.00	0.03	**5.00**
78.26	0.00	100.00	0.03	**5.00**
44.02	0.00	100.00	0.03	**5.00**
0.00	0.00	100.00	0.03	**5.00**
0.00	0.01	100.00	0.60	**5.00**
347.83	0.00	100.00	0.40	**5.00**
269.57	0.00	100.00	0.36	**5.00**
0.00	0.00	100.00	0.36	**5.00**

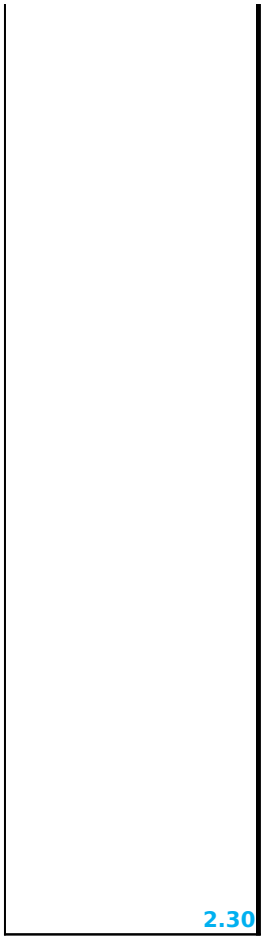
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19.57	0.02	100.00	1.85	**5.00**

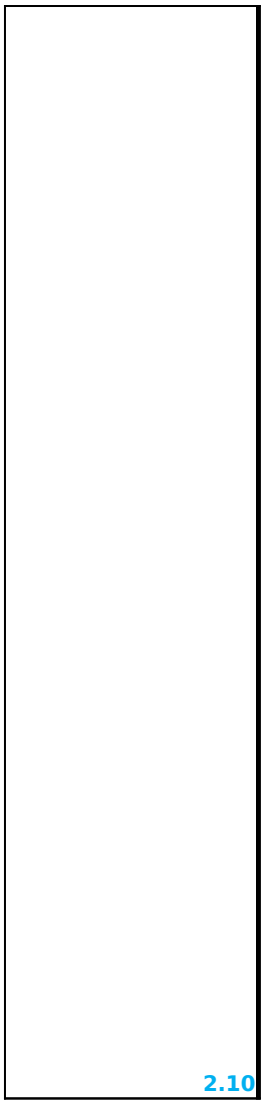
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coast/km
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0.01
0.01

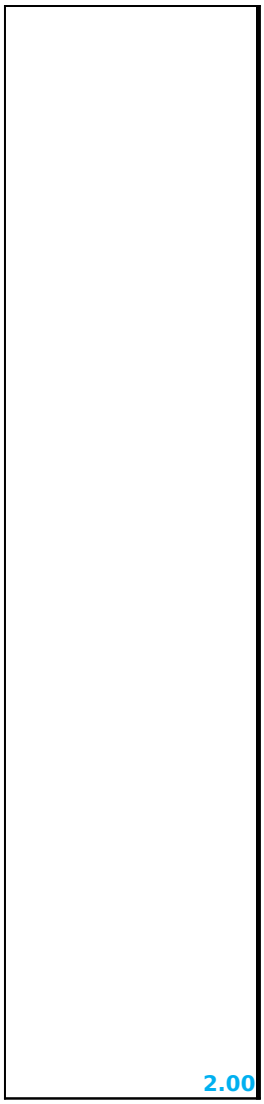
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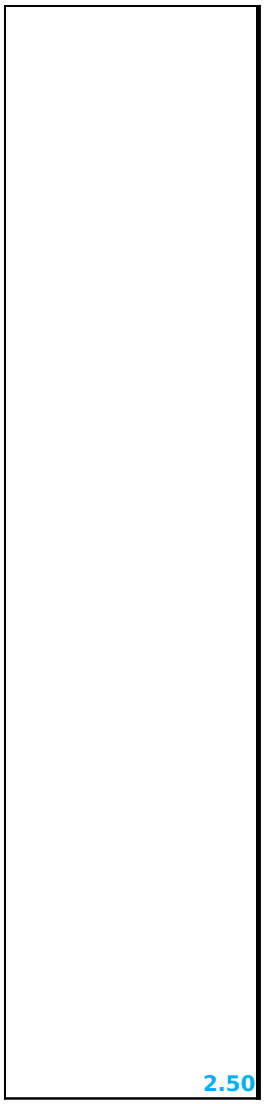
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3.20

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2.50
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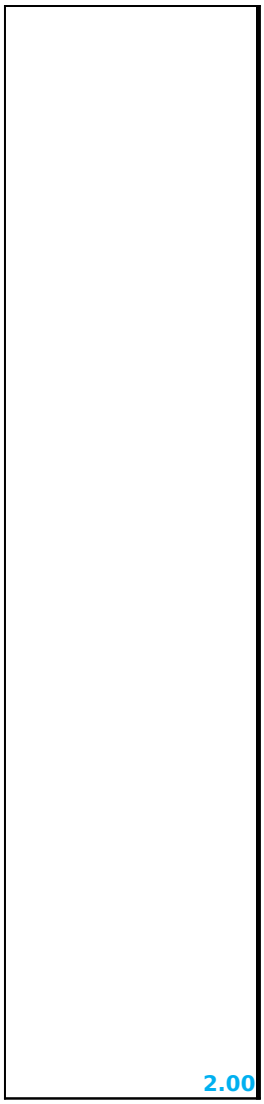

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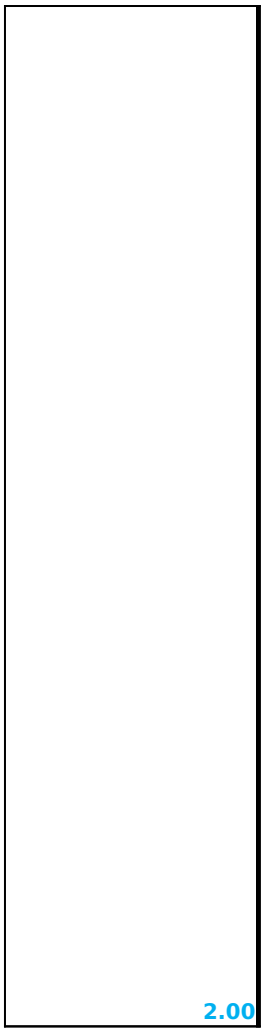

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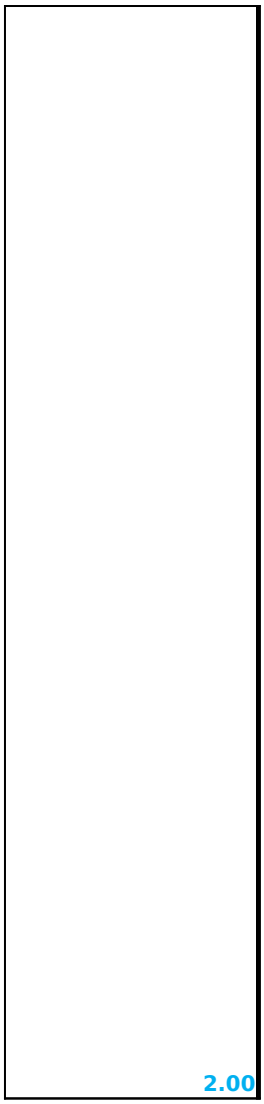

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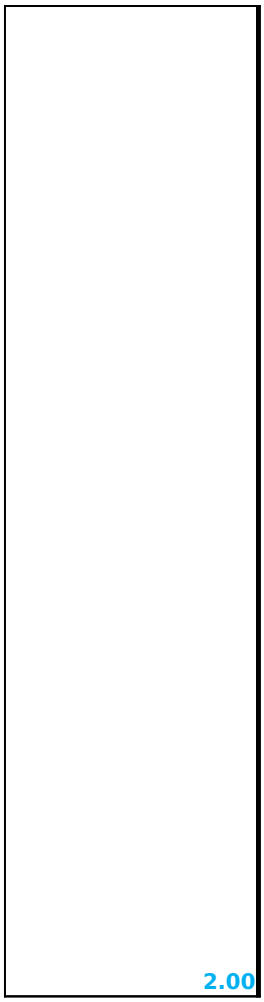

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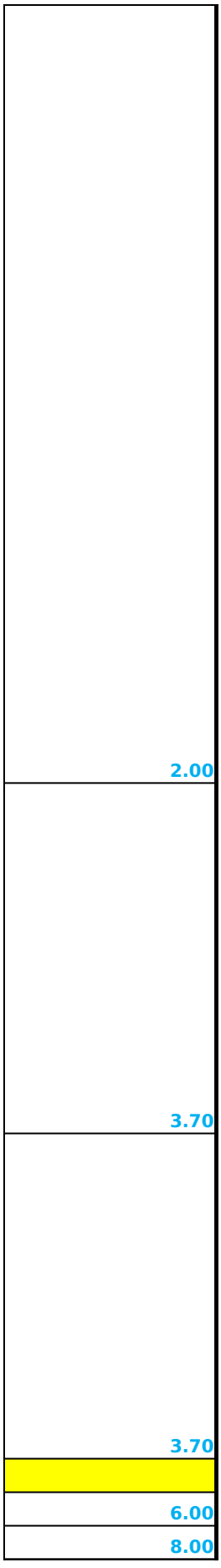

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2.00


2.00


2.00


2.00


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